

COLUMBIA

ANNUAL REPORT OF THE  
HEALTH OFFICER  
OF THE  
DISTRICT OF COLUMBIA  
OFFICER

FISCAL YEAR ENDED JUNE 30, 1924

W. H. LIEBOWITZ

OFFICE

TABLE 5.—Statement of the distribution system, including mains laid by the United States, the District of Columbia, and on account of repayment work

	In service June 30, 1928	Laid during year ended June 30, 1929	Abandoned during year ended June 30, 1929	In service June 30, 1929
Diameter:				
3-inch.....linear feet.....	92,761	794.20	183.00	93,372.20
4-inch.....do.....	155,478	1,681.95	2,518.50	154,641.65
6-inch.....do.....	1,464,656	2,759.88	356.92	1,467,058.96
8-inch.....do.....	1,391,142	66,064.91	1,214.00	1,455,992.91
10-inch.....do.....	9,120			9,120.00
12-inch.....do.....	511,167	27,760.95		538,927.95
16-inch.....do.....	87,944	5,190.00		93,134.00
20-inch.....do.....	146,558	426.70		146,984.70
24-inch.....do.....	37,299	5,513.40		42,812.40
30-inch.....do.....	72,166	7.00		72,173.00
36-inch.....do.....	63,878	5,922.40		69,800.40
42-inch.....do.....	23			23.00
48-inch.....do.....	44,256			44,256.00
75-inch.....do.....	600			600.00
Total.....	4,077,048	116,121.39	4,272.22	4,188,897.17
Stop valves.....	13,242	748	225	13,765
Fire hydrants.....	4,655	250	4	4,901
Public hydrants.....	299	14	2	311
Sanitary fountains.....	30	3	1	32
Public wells.....	39	0	2	37
Horse fountains.....	172	0	1	171

TABLE 6.—Statement of the length and cost of water mains laid from July 1, 1878, to June 30, 1929, paid from water department funds

	In service June 30, 1928	Laid during year ended June 30, 1929	Abandoned during year ended June 30, 1929	In service June 30, 1929
Diameter:				
3-inch.....linear feet.....	77,081		183.00	76,898.00
4-inch.....do.....	109,737		2,518.30	107,218.70
6-inch.....do.....	1,069,411		356.92	1,069,054.08
8-inch.....do.....	1,322,645	56,810.62	1,214.00	1,378,241.62
10-inch.....do.....	6,751			6,751.00
12-inch.....do.....	440,281	25,832.75		466,113.75
16-inch.....do.....	74,410	4,652.65		79,062.65
20-inch.....do.....	135,456			135,456.00
24-inch.....do.....	16,815	5,403.00		22,218.00
30-inch.....do.....	34,599			34,599.00
36-inch.....do.....	38,244	5,744.25		43,988.25
42-inch.....do.....	23			23.00
48-inch.....do.....	14,393			14,393.00
Total.....	3,339,846	98,443.27	4,272.22	3,434,017.05

Total cost to June 30, 1928..... \$6,833,492.69  
 Total cost for the year ended June 30, 1929..... 540,563.68

Aggregate cost to June 30, 1929..... 7,374,056.37

ANNUAL REPORT OF THE  
HEALTH OFFICER  
DISTRICT OF COLUMBIA

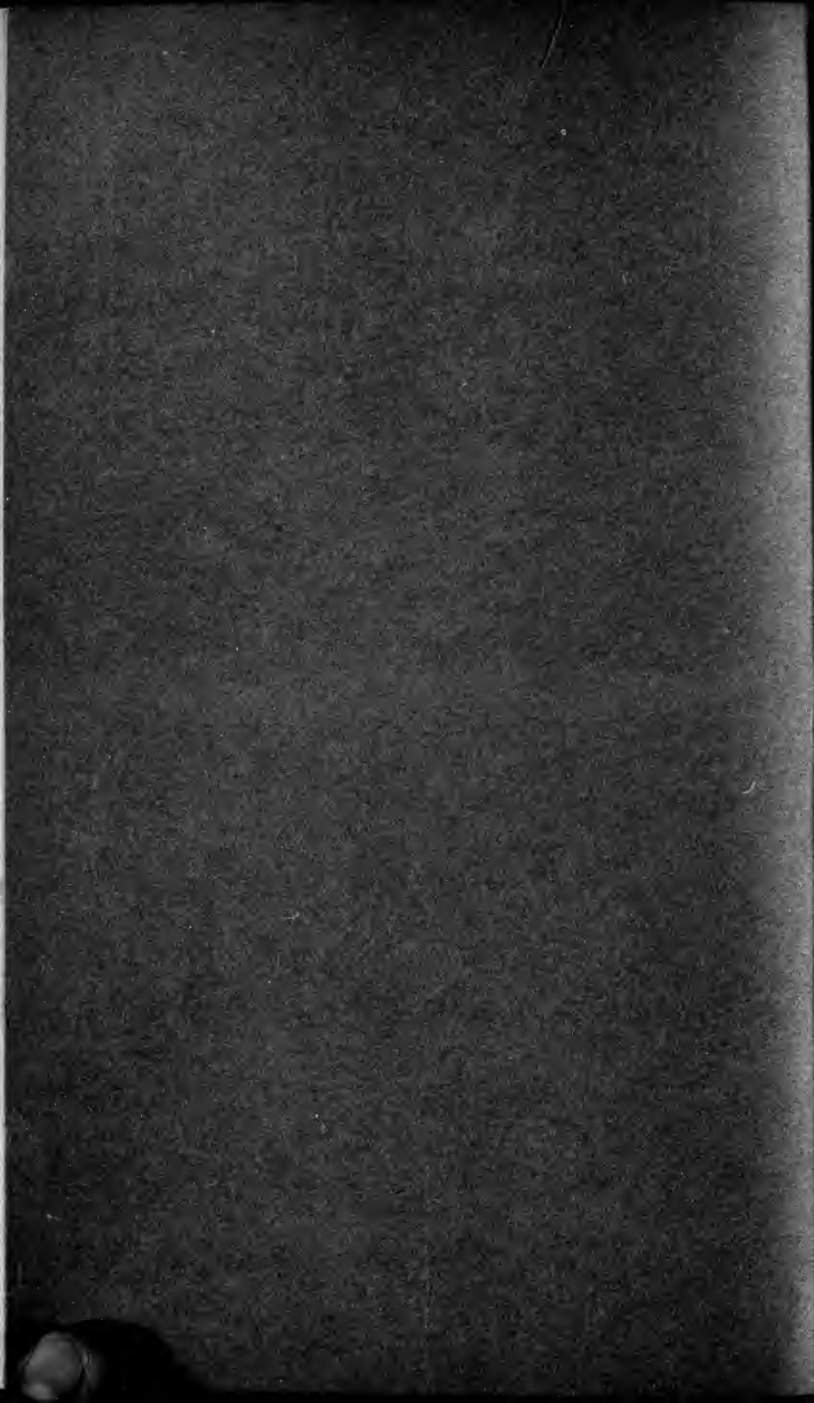
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FISCAL YEAR ENDED JUNE 30, 1929

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DISTRICT OF COLUMBIA

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# ANNUAL REPORT OF THE HEALTH OFFICER

FOR FISCAL YEAR ENDED JUNE 30

1929



UNITED STATES  
GOVERNMENT PRINTING OFFICE  
WASHINGTON : 1929



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# REPORT OF HEALTH OFFICER

AUGUST 23, 1929.

To the COMMISSIONERS:

I herewith respectfully submit a report of the work done by the health department during the fiscal year ending June 30, 1929.

## PART I

### POPULATION

The population of the District of Columbia has steadily increased until the figures furnished by the United States Bureau of the Census estimate the present population to be 552,000, of which 424,400 are white and 127,600 colored. The statistical data given in this report is therefore based on this estimated population.

### GENERAL BIRTH RATES AND DEATH RATES

Data regarding population, births, stillbirths, and deaths recorded during the calendar year 1928, with similar data for previous years, will be found in the following table.

*Population, births, stillbirths, and deaths in the District of Columbia, with corresponding rates during the calendar years 1901-1928, inclusive*

Calendar years	Popula- tion	Births	Still- births	Deaths	Rates per 1,000 population		
					Births	Stillbirths	Deaths
1901-1905 <sup>1</sup> .....	311,325	5,409	570	6,042	17.38	1.83	19.41
1906-1910 <sup>1</sup> .....	335,940	6,900	577	6,304	20.48	1.71	18.71
1911-1915 <sup>1</sup> .....	353,443	7,028	478	6,188	19.83	1.35	17.50
1916-1920 <sup>1</sup> .....	413,270	8,025	484	7,120	19.41	1.17	17.23
1921-1925 <sup>1</sup> .....	473,772	9,141	493	6,607	19.32	1.04	13.94
1926.....	528,000	9,004	492	7,388	17.05	.92	13.99
1927.....	540,000	9,175	487	6,987	17.00	.90	12.94
1928.....	552,000	8,994	484	7,239	16.29	.88	13.11

<sup>1</sup> Annual average for 5-year period.

*Births.*—In the following tables an analysis is given of the registered live births and stillbirths, according to race:

*Nativity in the District of Columbia, by years and by race, during the calendar years 1906-1928, inclusive*

Calendar years	Births and stillbirths registered				Rate per 1,000 of correspond- ing population		
	White	Colored	Unknown	Total	White	Colored	Total
1906-1910 <sup>1</sup> .....	4,832	2,583	62	7,427	20.10	26.07	22.02
1911-1915 <sup>1</sup> .....	4,962	2,483	61	7,506	19.05	25.03	21.00
1916-1920 <sup>1</sup> .....	5,956	2,502	51	8,509	19.03	23.06	20.60
1921-1925 <sup>1</sup> .....	6,671	2,719	44	9,635	18.37	25.20	20.90
1926.....	6,388	3,095	13	9,496	16.20	23.10	18.00
1927.....	6,569	3,085	8	9,662	16.27	22.65	17.90
1928.....	6,410	3,063	5	9,478	15.10	24.00	17.20

<sup>1</sup> Annual average for 5-year period.

## REPORT OF THE HEALTH OFFICER

*Stillbirths in the District of Columbia, relative frequency of, with reference to race, during the calendar years, 1906-1928, inclusive*

Calendar years	Registered stillbirths				Rate per 1,000		
	White	Colored	Unknown	Total	White	Colored	Total
1906-1910 <sup>1</sup> .....	200	315	62	577	0.8	3.2	1.7
1911-1915 <sup>1</sup> .....	168	250	61	478	.7	2.5	1.3
1916-1920 <sup>1</sup> .....	210	223	51	484	.7	2.1	1.2
1921-1925 <sup>1</sup> .....	231	217	44	475	.6	1.9	1.0
1926.....	229	250	13	492	.6	1.9	.9
1927.....	236	243	8	487	.6	1.8	.9
1928.....	209	270	5	484	.4	2.1	.9

<sup>1</sup> Annual average for 5-year period.

*Percentage of stillbirths of each class named below, computed upon basis of all live births and stillbirths together for each class*

Calendar years	By races			Social status	
	White	Colored	Total	Legitimate	Illegitimate
1906-1910 <sup>1</sup> .....	4.1	12.2	7.7	5.6	14.9
1911-1915 <sup>1</sup> .....	3.4	10.0	6.4	4.8	12.6
1916-1920 <sup>1</sup> .....	3.5	8.9	5.7	4.6	12.9
1921-1925 <sup>1</sup> .....	3.4	7.4	5.0	4.3	8.2
1926.....	3.6	8.1	5.2	4.1	5.8
1927.....	3.6	7.9	5.0	4.0	6.4
1928.....	3.3	8.8	5.1	4.0	5.3

<sup>1</sup> Annual average for 5-year period.

*Stillbirths in the District of Columbia, relative frequency of, in home and hospital practice during the calendar year 1928*

Place of birth	White			Colored			Total			
	Live births	Still births	Percentage of still to live and still births	Live births	Still births	Percentage of still to live and still births	Live births	Still births	Percentage of still to live and still births	Still births, unknown race
Institutions.....	4,825	166	3.3	1,485	110	6.9	6,201	276	4.3	-----
Homes.....	1,373	43	3.0	1,308	160	10.9	2,793	203	6.8	5
Total.....	6,201	209	3.3	2,793	270	8.8	8,994	479	5.1	5

*Illegitimacy in the District of Columbia, prevalence of, by years and by race, during the calendar years 1906-1928, inclusive*

Calendar year	Illegitimate births and stillbirths registered				Rates per 1,000 corresponding population			Percentage of all births and still births reported as illegitimate		
	White	Colored	Unknown	Total	White	Colored	Total	White	Colored	Total
1906-1910 <sup>1</sup> .....	110	572	-----	682	0.5	5.9	2.0	2.3	22.1	9.2
1911-1915 <sup>1</sup> .....	111	541	67	719	.4	5.5	2.1	2.2	21.7	9.6
1916-1920 <sup>1</sup> .....	112	452	52	616	.4	4.3	1.5	1.9	18.1	7.2
1921-1925 <sup>1</sup> .....	125	438	46	660	.3	4.2	1.3	1.8	16.6	6.7
1926.....	132	489	48	669	.3	3.7	1.2	2.2	15.8	6.5
1927.....	127	520	37	684	.3	3.8	1.2	1.9	16.9	6.7
1928.....	141	505	5	651	.3	3.9	1.2	2.2	16.5	6.8

<sup>1</sup> Annual average for 5-year period.

## MORBIDITY AND MORTALITY STATISTICS

*General mortality.*—The general death rate during the calendar year 1928 was slightly increased as compared with the previous year. The rate for the year 1927 was 12.94 for each 1,000 of population, while in the year just closed it was 13.11. The total number of deaths recorded during the year was 7,239, an increase of 252 over the preceding year. The general birth rate fell from 17 per 1,000 of population in the calendar year 1927 to 16.29 in the year just closed.

The total number of births recorded during the year 1928 was 8,994, a decrease of 181 when compared with the preceding year.

It will be seen from figures given that while the birth rate decreased the death rate slightly increased.

In studying the deaths recorded it is found that 4,480 were white and 2,759 colored. These figures give a white death rate of 10.56 and colored 21.62. A comparison of these rates with those of the preceding year shows the white death rate decreased from 10.70 to 10.56, and the colored increased from 19.58 to 21.62.

In considering the most potent cause of death, it is found that diseases of the heart (as in the preceding year) rank first with a total of 1,260 deaths, nephritis 689, malignant growths 608, pneumonia 638, pulmonary tuberculosis 507, and apoplexy 515.

## INFANT MORTALITY

It is very gratifying to note that the infant mortality in the District of Columbia continues to decline. During the calendar year 1928, the figures show that for each 1,000 children born during that year, 64.6 died under 1 year of age. The white rate was 45.3 and the colored 107.4. These figures show a marked contrast in the two races.

The following table will show the marked improvement that has taken place in the infant death rate in this District during the past three years.

Year	White rate	Colored rate	Total
1926.....	66.7	123.0	84.5
1927.....	47.5	108.0	66.3
1928.....	45.3	107.4	64.6

*Racial population, deaths and death rates in the District of Columbia, by calendar years, from 1901 to 1928, inclusive*

Calendar years	Population		Deaths		Death rates	
	White	Colored	White	Colored	White	Colored
1901-1905 1.....	217,605	93,719	3,395	2,647	15.60	28.20
1906-1910 1.....	240,244	96,686	3,626	2,678	15.09	27.69
1911-1915 1.....	255,162	98,281	3,665	2,523	14.35	25.67
1916-1920 1.....	307,076	106,194	4,512	2,608	14.76	24.70
1921-1925 1.....	358,013	115,758	4,182	2,424	11.68	20.91
1926.....	394,300	133,700	4,598	2,790	11.66	20.87
1927.....	403,800	136,200	4,320	2,667	10.70	19.58
1928.....	424,400	127,600	4,480	2,759	10.55	21.62

<sup>1</sup> Annual average for 5-year period.

## REPORT OF THE HEALTH OFFICER

## REPORTABLE DISEASES

The following tables show to what extent contagious diseases existed in the District of Columbia during the calendar year 1928.

*Reportable diseases in the District of Columbia—cases and case rates during the calendar years 1925, 1926, 1927, and 1928*

Diseases	Cases				Case rates per 100,000 population			
	1925	1926	1927	1928	1925	1926	1927	1928
Anterior poliomyelitis.....	22	7	14	36	4.4	1.3	2.6	6.5
Chicken pox.....	776	1,065	1,487	702	155.9	196.0	275.4	127.1
Diphtheria.....	685	940	929	1,268	137.6	178.0	172.0	229.7
Epidemic cerebrospinal meningitis.....	2	6	4	8	.8	1.1	.7	1.4
Measles.....	425	6,757	164	3,586	159.5	1,279.3	30.4	649.6
Pellagra.....	1	13	6	2	.4	2.4	1.1	.4
Scarlet fever.....	1,260	855	944	1,289	203.1	161.9	174.8	233.5
Tuberculosis, communicable.....	1,326	1,173	1,222	1,142	248.6	222.1	226.3	206.9
Smallpox.....	147	16	63	24	11.8	3.0	11.7	4.3
Typhoid fever.....	133	89	78	46	26.3	16.8	14.4	8.3
Whooping cough.....	487	1,020	476	549	149.6	193.2	88.1	99.5

*Reportable diseases in the District of Columbia—deaths, percentage of fatalities, and death rates during the calendar years 1925, 1926, 1927, and 1928*

Diseases	Deaths				Percentage of deaths to cases				Death rates per 100,000 population			
	1925	1926	1927	1928	1925	1926	1927	1928	1925	1926	1927	1928
Anterior poliomyelitis.....	4	5	6	5	18.2	71.4	42.8	13.9	0.8	1.0	1.1	1.0
Chicken pox.....	0	0	0	0	0	0	0	0	0	0	0	0
Diphtheria.....	37	29	24	45	5.4	3.2	2.6	3.6	7.4	5.5	4.4	8.1
Epidemic cerebrospinal meningitis.....	1	4	3	5	25.0	66.7	75.0	62.5	.2	.8	.6	1.0
Measles.....	4	34	0	17	.5	.5	0	.5	.8	6.4	0	3.1
Pellagra.....	2	8	5	2	66.6	61.5	83.3	100.0	.4	1.5	.9	.4
Scarlet fever.....	5	7	8	7	.5	.8	.8	.5	1.0	1.3	1.5	1.3
Smallpox.....	20	0	0	0	33.9	0	0	0	4.0	0	0	0
Tuberculosis, communicable.....	548	581	606	577	44.3	49.5	39.7	50.1	110.1	110.0	112.0	104.5
Typhoid fever.....	25	12	10	15	19.8	14.6	12.8	32.6	5.0	2.3	1.9	2.7
Whooping cough.....	21	39	17	22	2.8	3.8	3.6	4.0	4.2	7.4	3.5	4.0

*Rabies.*—Cases of rabies in animals are still being frequently found in the District of Columbia, although the number materially diminished during the calendar year 1928, as is shown by the following figures.

During the year 1928, 21 dogs were found to be rabid as compared to 67 in the preceding year. The number of persons bitten by rabid dogs was 24 against 47 the previous year. In addition to the cases mentioned 666 other persons were bitten by dogs, most of which animals were found upon examination by veterinarians of the department to be in a normal condition.

The usual proclamation requiring the muzzling of dogs or their being held in leash while on the public streets during a certain portion of the year was issued by the Commissioners of the District.



## PART II

### ADMINISTRATION

#### BUREAU OF PREVENTABLE DISEASES

Contagious diseases existed to a somewhat greater extent during the calendar year 1928 than in the preceding year.

*Reportable diseases in the District of Columbia—cases reported during the fiscal years 1928 and 1929*

Diseases	Fiscal year 1927-28	Fiscal year 1928-29	Diseases	Fiscal year 1927-28	Fiscal year 1928-29
Anterior poliomyelitis.....	18	33	Smallpox.....	37	0
Chicken pox.....	733	951	Tuberculosis.....	1,102	1,290
Diphtheria.....	921	989	Typhoid fever.....	71	47
Epidemic cerebrospinal meningitis..	8	9	Whooping cough.....	353	862
Leprosy.....	0	1	Influenza.....	83	2,398
Measles.....	3,400	632	Total.....	8,208	8,394
Pellagra.....	0	2			
Scarlet fever.....	1,452	1,180			

*Diphtheria.*—Diphtheria prevailed to a somewhat greater extent during the calendar year 1928 than during the preceding year. Fortunately, however, no outbreaks of that disease occurred in any institution. The freedom from diphtheria among the inmates of the several institutions in this District can probably be attributed to some extent at least to the diphtheria immunization work which has been carried on by the health department in these institutions. It is regretted that available appropriation would not permit of a more extensive program of immunization work. Of the 1,268 cases of diphtheria reported in the District during the year 1928, 45, or 3.5 per cent, resulted fatally.

*Scarlet fever.*—During the calendar year 1928, 1,289 cases of scarlet fever with 7 deaths were recorded. Included in those figures were 30 cases reported by the Army and Navy hospitals in Washington.

*Typhoid fever.*—During the calendar year 1928, 46 cases of typhoid fever were recorded with 15 deaths, furnishing a death rate of 32.6 per cent. The high death rate indicates that the number of cases reported does not accurately represent the actual number of cases existing and that cases occurred that were not reported to the health department as existing law requires.

It must also be borne in mind that a good many very serious cases of typhoid fever among persons living outside the jurisdiction of the District of Columbia are brought into the hospitals in Washington for treatment and die here, thus increasing to a considerable extent the death rate from typhoid fever in this District. It seems hardly fair to charge these deaths against the District of Columbia, when the disease was in no way traceable to this District. I do not, however, know how this situation can be corrected. It is interesting

to note that investigation of the 46 cases of typhoid fever reported during the year showed that 14 of these cases were contracted outside of the District.

*Smallpox.*—Twenty-four cases of smallpox, with no deaths, were recorded during the calendar year 1928; during the year previous 63 cases and no deaths were reported.

Of the 24 cases reported in the year 1928 none of them had ever been successfully vaccinated.

*Smallpox hospital.*—It is gratifying to report that it was not found necessary to open this institution for the reception and care of patients during the entire fiscal year 1929.

*Quarantine station.*—That institution was in active operation 11 days during the fiscal year, during which time 4 inmates were cared for. The total number of patient days rendered was 11, and the average stay of each inmate was 3 days.

*Ambulance service.*—During the fiscal year 1929, 641 patients suffering from minor contagious diseases were removed to the hospital for treatment.

*Isolating wards, Garfield Memorial and Providence Hospitals, service and expenses during the fiscal year 1928-29*

Institutions	Patient-days			Total appropriated by the Government	Paid by the District for the year	Cost to District per free patient per day	Amount received from pay patients
	Pay	Free	Total				
Garfield Memorial Hospital.....	2,709	4,211	6,920	\$15,000	\$14,843.20	\$3.52	\$9,569.72
Providence Hospital.....	1,089	3,499	4,488	8,000	8,000.00	2.29	(1)

<sup>1</sup> No account of money received from pay patients was rendered by Providence Hospital.

### ISOLATING WARDS

The following table shows the number of patients treated at Garfield and Providence Hospitals and the diseases for which patients were treated, together with the total number of patient-days during the fiscal year 1928-29.

Diseases treated	Cases treated at public expense				Private cases			
	Number of patients		Patient-days		Number of patients		Patient-days	
	Garfield	Providence	Garfield	Providence	Garfield	Providence	Garfield	Providence
Chickenpox.....	7	0	139	0	1	0	10	0
Diphtheria.....	0	241	0	2,785	0	107	0	956
Diphtheria and scarlet fever.....	1	1	22	10	1	0	48	0
Epidemic cerebrospinal meningitis.....	0	0	0	0	1	0	36	0
Erysipelas.....	0	0	0	0	0	1	0	14
Measles.....	0	37	0	596	0	9	0	85
Mumps.....	1	0	8	0	1	0	18	0
Scarlet fever.....	130	0	3,714	0	107	0	2,553	0
Suspected scarlet fever.....	3	0	46	0	1	0	42	0
Suspected diphtheria.....	0	17	0	74	0	5	0	34
Pneumonia and measles.....	0	3	0	32	0	0	0	0
Whooping cough.....	10	0	282	0	1	0	2	0
Whooping cough and measles.....	0	1	0	2	0	0	0	0
Total.....	152	300	4,211	3,499	113	122	2,709	1,089

*Isolation building for contagious diseases.*—Attention has repeatedly been called to the urgent need of a suitable isolation building for the care and treatment of persons suffering from minor contagious diseases. The present isolating wards at Garfield and Providence Hospitals are antiquated and a modern structure should be provided. Efforts to secure the necessary funds to erect and equip a modern and suitable hospital for minor contagious diseases has been unsuccessful. I urgently recommend therefore that the plans for the erection of the new buildings at the Gallinger Hospital be altered so as to provide for a suitable isolation building as one of the units of the general scheme for this municipal institution.

*Venereal diseases.*—The total number of cases of venereal diseases reported to the Health Department during the calendar year 1928 was 1,753, of which 1,023 were syphilis, 686 gonorrhea, and 44 chancre. It is believed that reports of venereal diseases are now being more frequently made than was the case during the other years, since the act was passed requiring such reports to be made.

*Influenza.*—The District of Columbia was visited in the early part of the calendar year 1929, like all other places in the United States, by an epidemic of influenza. This outbreak originated in California and swept practically the entire country. The disease was, however, of a much milder type than of the year 1918-19, and the number of fatal cases was accordingly much less than in the former epidemic. The records of the health department show that a total of 2,288 cases were reported, with a total of 86 deaths, before the outbreak was entirely over. It is regretted that no practical means are known to health authorities for the prevention of the spread of that disease.

#### INFLUENZA

The 1928-29 influenza epidemic began about December 15, 1928, and came to a close February 2, 1929. During that period there were 2,288 cases reported. The deaths occurring during the period were 86 from influenza and 220 from pneumonia, a total from both causes of 306.

Week ending—	Influenza		Pneumonia deaths	Week ending—	Influenza		Pneumonia deaths
	Cases	Deaths			Cases	Deaths	
Dec. 22, 1928.....	187	3	19	Jan. 26, 1929.....	171	18	36
Dec. 29, 1928.....	211	7	19	Feb. 2, 1929.....	87	12	36
Jan. 5, 1929.....	658	10	20				
Jan. 12, 1929.....	567	25	37	Total.....	2,288	86	220
Jan. 19, 1929.....	407	11	53				

*Disinfecting service.*—The terminal fumigation of premises after contagious diseases was definitely discontinued January 1, 1929. The disinfecting plant and equipment heretofore maintained and operated by the health department was at the request of the authorities at Gallinger Hospital and the United States Jail, and with the approval of the commissioners, transferred to those institutions.

*Public crematorium.*—The crematorium was in active service only 31 days during the fiscal year 1929. The health department was forced to discontinue the operation of this institution because of the

dilapidated and dangerous condition of the retorts in which bodies were cremated.

Repeated attempts had been made by the District of Columbia repair shop to put these retorts in proper condition to be used, but it was finally decided that repair was impossible and the attempt to operate the plant would likely result in loss of life to the operator and the destruction of the building. An effort was made to secure an adequate appropriation for the installation of new furnaces, but without success. The building itself is in need of repairs also, and an appropriation of approximately \$1,000 is now available for this work, which has been ordered to be done.

The cost of installing two new retorts is estimated by the District of Columbia Engineer Department at \$10,235, and an item for this purpose is carried in the annual estimates of the health department for the fiscal year 1931. It is earnestly recommended that every effort be made to secure the necessary appropriation. Since the operation of the crematory was discontinued, the dead bodies of persons required to be disposed of at public expense have been buried in the "potter's field" at Blue Plains.

The total number of dead bodies cremated during the fiscal year 1929, before the operation of the crematory was suspended, was 159, divided as follows: Adults 26, infants 54, and stillborn babies 79.

*Bacteriological laboratory.*—The bacteriological laboratory examined and reported on a total of 28,886 specimens, which represents the largest number of specimens examined in the history of the laboratory, and it is difficult to show in cold figures the amount of detail work involved.

There were 14,555 cultures submitted to the laboratory for the diagnosis and release from quarantine of persons suffering from, or suspected to be suffering from, diphtheria. Thirteen thousand one hundred and thirty-four of these cultures gave negative results.

Five thousand one hundred and ninety-four specimens of sputum were examined for the tubercle bacillus, of which 746 were found to contain that organism.

Of the 272 specimens of blood tested by the "Widal reaction" for typhoid fever, 57 were positive.

*Bathing pools.*—There was an increased number of samples of water collected from the various public bathing pools and examined, when compared with the preceding fiscal year. The examination showed the water in these pools in good condition, indicating that the operation of such pools was satisfactory and meeting the required standard of the health department.

*Public water supply.*—Two thousand one hundred and three samples of drinking water were collected and examined during the year. Included in these samples were a number collected from some of the "common passenger carriers" entering the District.

*Milk.*—As heretofore, a close supervision has been kept over the bacterial content of the milk sold in the District, and 4,042 samples were examined.

*Ice cream.*—As in the case of milk and cream sold in the District, careful attention was also given the ice cream sold here so that the department might know that the product in question was pure, wholesome, and safe for public consumption.

In addition to the foregoing activities of the bacteriological laboratory, a number of samples of foods of various kinds were also examined.

*Serological laboratory.*—A total of 10,543 specimens of various kinds were examined during the year, an increase over the preceding year of 27 per cent. Six thousand nine hundred and ninety-eight specimens were submitted for the "complement fixation test," of which 1,617, or 23 per cent, gave a positive reaction for syphilis. Three thousand and eighty-one smears were examined for gonorrhea, and of this number, 938 were positive.

*Chemical laboratory.*—There was a total of 12,241 samples of all kinds examined during the year, divided as follows: Milk, 11,103; cream, 227; ice cream, 750; other foods, 17; water, 104; drugs, 12; miscellaneous, 4; for police department, 17; coroner, 5; and other branches of the District government, 2.

*Dispensaries.*—Provision having been made for the health department to occupy premises 512 I Street NW., as tuberculosis dispensary and also a venereal dispensary, the building in question was remodeled and equipped for such use and was occupied as such July 1, 1928. The building is well adapted to the service, and is not only in good state of repair but is also quite attractive to the public. Since the occupancy of the building the services have grown so rapidly that the quarters are hardly adequate at this time. The building contains 21 rooms and are all occupied. While there has thus far been no move to secure additional quarters, it is quite probable that in the near future it may become very necessary to do so.

*Tuberculosis division.*—There were 1,817 new patients who applied for examination and treatment, 398 of whom were found to be positive for tuberculosis, 492 negative, and 927 in which a definite diagnosis was not made, and the diagnosis in these cases was still pending at the close of the year. The 398 positive cases are divided as follows: White males, 94; white females, 123; colored males, 72; and colored females, 109. One hundred and thirty of these patients were found to be in the incipient stage of tuberculosis, 202 were moderately advanced, and 66 far advanced in the disease.

The total number of visits made by all patients to the clinic was 7,860, while the number of visits made by the nurses to the homes of the patients was 5,017. During the fiscal year, 1,580 X-ray pictures were made to aid in the diagnosis of cases.

During the year the Tuberculosis Association of the District of Columbia, a nonofficial organization, undertook a campaign to "round up" young children who had been known to be exposed to the infection of tuberculosis, for the purpose of having them physically examined to ascertain if any of them were suffering from tuberculosis. While the work was done under the auspices of the tuberculosis association, the health department cooperated in every way that it could. Accordingly arrangements were made to have the children found by the tuberculosis association examined in the building used and occupied by the health department tuberculosis dispensary, at 512 I Street NW., the department furnishing the quarters and one of its nurses to aid in the work. Arrangements were also made for the use of the X-ray equipment of the department whenever its services were requested, the tuberculosis association paying for the materials used and for the extra time of the operator of the apparatus.

The actual results obtained in this special campaign are not at this time known to the health department, but it is believed that the effort was well worth while.

*Venereal disease division of the dispensary.*—The following statement shows the amount of work done at the venereal disease clinic:

Two thousand five hundred and fifty-four new patients applied for examination or treatment during the year. Of this number 458 were white males, 208 white females, 1,149 colored males, and 739 colored females. Three thousand and twenty-six "Wassermann" examinations were made for syphilis, 5,363 injections of "Salvarsan," and 4,955 of mercury were given for the treatment of syphilis.

Three hundred and twenty-four patients suffering from gonorrhea and three from chancroid were also given appropriate treatment for their infections. The total number of visits made by all patients to the clinic was 18,925. Of the total number of patients treated at the clinic, 451 were under 15 years of age, and 50 of these were under 5 years of age. In addition to the work done at the clinic, the two social workers of the service made 3,453 visits to the homes of patients.

#### MEDICAL AND DENTAL INSPECTION OF PUBLIC SCHOOLS

I desire again to stress the need for a more adequate medical and dental service for the public schools in this District. The present corps of doctors, dentists, and nurses is entirely inadequate to give the pupils in the public schools the supervision that they should receive. With a more adequate force of inspectors and nurses, much more can be done than is now possible. It is of the utmost importance that the children in the schools of this District should be in good physical condition in order that they may pursue their studies in a comfortable and efficient manner.

Examination of pupils in the kindergarten and first grades of our schools has shown very clearly that many of them are working under physical handicaps that materially interfere with their course of study. Everything possible should be done to aid these children in obtaining a proper education, and one of the best ways of doing so is to see that they are physically and mentally well. With a more adequate corps assigned to this work it would at least be possible to examine every child as it enters school, and that whatever, if any, defects it may have can early be discovered and the appropriate treatment applied.

The number of medical and dental inspectors and nurses has remained the same for a good many years, although the school population has rapidly increased. The four dental clinics which have been operating for several years have done a great amount of work, but more of these clinics should be provided to serve other sections of the District that are now practically without such service.

During the last school year 1928-29, the medical inspectors made 49,872 partial and 12,012 complete physical examinations, a total of 61,947. This total includes the complete physical examination in the presence of their parents, of 4,568 pupils in the first grades and kindergartens, 4,536 in other grades, and 2,116 applicants for permits to work under the provisions of the child labor law. The total number of visits made to school buildings was 7,981, and to homes of pupils 185.

During the year 5,185 pupils were excluded from school for cause. Of 3,890 pupils examined in the kindergarten and first grades, 91.8 per cent, were found to have some physical defect, such as defective

teeth, diseased tonsils, substandard nutrition, enlarged glands, defective nasal breathing, anemia, defective vision, skin disease, chronic nasal catarrh, pulmonary diseases, nervous diseases, orthopedic troubles, defects of speech, heart disease, defective hearing, disease of the eye and other ailments. It is quite true that many of the defects found were of more or less minor importance, but they should be corrected.

Three hundred and sixty-three applicants for teaching positions and 440 for admission to the normal schools were given a complete physical examination, with the result that 803, or 24.2 per cent, were passed, 69.2 per cent were passed conditionally, 5.9 per cent rejected temporarily, and 0.4 per cent permanently rejected.

During the school year the work of immunizing pupils against diphtheria was carried on in the public schools by the contagious-disease service of the health department. For lack of funds this work had to be much curtailed.

Three thousand three hundred and twenty-two pupils were given the Schick test, and of these 2,094 were immunized by the administration of toxin-antitoxin.

In a study of 366 pupils who had on a previous occasion been immunized against diphtheria, it was found that of this number only 8, or 1.88 per cent, were susceptible to diphtheria at the present time. These eight pupils were reimmunized.

The dental inspectors made a total of 21,784 dental examinations during the year. Of this number 79.3 per cent were found to have some dental defect. Four thousand three hundred and sixty-seven pupils were treated at the four dental clinics during the school year, 3,134 being white and 1,233 colored; 81.3 per cent of the pupils treated had all their dental work completed. Eighteen thousand eight hundred and twenty-eight pupils were cared for by the school nurses during the school term. Of the total number of cases handled by them, 28.5 per cent of the pupils were cured of their trouble. The nurses also made 4,833 visits to school buildings, 6,220 to homes of pupils, 1,543 to various clinics, and 1,318 to various cooperative agencies.

#### REPORT OF SANITARY OFFICER

Four hundred and forty-nine persons were taken into custody by the police department during the fiscal year 1929 and held for mental observation.

The following statement shows the disposition of these cases:

	Number
Tried and adjudged insane in lunacy court and transferred to St. Elizabeths Hospital.....	385
Tried and adjudged insane in lunacy court and eloped before being transferred to St. Elizabeths Hospital.....	1
Tried and adjudged insane in lunacy court and died before being transferred to St. Elizabeths Hospital.....	2
Adjudged unsound mind, but not dangerous or indigent and released....	3
Adjudged not insane.....	13
Admitted to St. Elizabeths Hospital on duplicate permit.....	5
Proceedings dismissed on motion counsel for the District of Columbia and released.....	28
Died before trial.....	10
Cases not disposed of at time of report.....	2
<b>Total.....</b>	<b>449</b>

## BUREAU OF FOOD INSPECTION

The inspectors in the food service made a total of 106,877 inspections during the fiscal year ending June 30, 1929. The number of food producing and vending establishments registered at the close of the year totaled 4,454, an increase of 99 as compared with the preceding year. Each of these establishments were inspected on an average of 22.22 times during the year.

One thousand four hundred and six dairy farms shipping milk and cream into the District of Columbia for sale, were registered at the close of the year; the number of cattle on these dairy farms was 28,425 at the close of the year. These dairy farms, practically all of which are located outside the District of Columbia, were each inspected on an average of 4.69 times during the year.

*Slaughterhouses.*—The 11 slaughterhouses in the District were, as heretofore, regularly inspected during the year.

The following table shows the result of prosecution for violations of the laws and regulations relating to food in the District of Columbia for the year ending June 30, 1929, with corresponding figures for previous year.

Cases	United States district attorney		Police court	
	1928	1929	1928	1929
Referred.....	9	0	303	272
Fines and forfeitures.....	9	0	262	242
Personal bond and nol pros.....	0	0	32	10
Acquitted.....	0	0	2	0
Pending.....	0	0	7	20
Amount of fines and forfeitures.....	\$210	0	\$2, 846	\$1, 820

## BUREAU OF SANITARY INSPECTION

*General nuisance inspections.*—The total number of official visits of all kinds made by the sanitary inspectors during the fiscal year 1929 was 95,961. Nine thousand seven hundred and eighty-five notices were served for the abatement of conditions found to exist in violation of existing laws and regulations. In 9,676 instances the condition for which notice was served was corrected, leaving 109 notices pending at the close of the fiscal year.

In 319 instances, notices under the assessment system were served upon nonresident owners of property in the District of Columbia for the abatement of nuisances on their property located in this District. In 203 of the cases the nuisance was abated either by the owners of the property or by order of the commissioners. In 30 cases the work was done by the District and the cost, amounting to \$1,648.91, assessed against the property concerned.

*Manufacture and sale of mattresses.*—There were 1,965 official visits made to establishments where mattresses and other bedding are made, renovated, or sold, and at the close of the fiscal year 255 of these places were registered at the health department in compliance with the law and regulations on the subject.



*Boarding homes for children.*—At the close of the fiscal year 235 homes for the care of children under 15 years of age were registered in the health department. Much care has been exercised in determining the fitness of these homes before a permit has been issued to maintain such place.

*Alley houses.*—It is believed that the sanitary condition surrounding the homes located in certain public alleys in the District has much improved, as during the fiscal year approximately 12,000 inspections were made and it was found necessary in only 652 instances to serve notice for the abatement of a nuisance.

*Podiatry establishments.*—There were 104 of these establishments registered at the close of the fiscal year. Inspections of these places were made from time to time throughout the year.

*Weeds.*—Notices for the removal of weeds from certain lands in this District were served in 493 instances and said weeds were promptly cut and removed from the said lands.

*Smoke inspection.*—The following table shows in detail the work done in this service for the year ending June 30, 1929:

Observations.....	10,805
Violations of law reported.....	524
Cases referred to corporation counsel.....	91
Cases resulting in fines and forfeitures.....	84
Cases in which personal bonds were taken.....	5
Cases nolle prossed.....	2
Cases pending.....	0
Amount of fines and forfeitures.....	\$935
Plants under observation.....	955
Number of inspections of plants.....	654
Reports of investigations on complaints.....	309

*Eight-hour female labor law.*—The following summary shows the number and kinds of establishments registered at the close of the fiscal year:

Hotels.....	51	Restaurants.....	227
Laundries.....	116	Telegraph and telephone.....	23
Mechanical.....	40	Express and transportation.....	21
Manufacturing.....	96		
Mercantile.....	931	Total.....	1,505

The establishments mentioned above were inspected from time to time throughout the year, the total number of inspections made being 8,101.

The fines and forfeitures paid for violation of the female labor law amounted to \$630.

#### CHILD-HYGIENE SERVICE

The child-hygiene service continues to make a satisfactory growth. Provision is made in the appropriation act for the fiscal year 1930 for the establishment of an additional child-hygiene station. This station, which will be located at 518 M Street NW., will be opened just after the beginning of the next fiscal year, and will serve a section of the city that has heretofore been without such service. It is the intention of the department to move the station which has for several years past been operated at 925 Twenty-second Street NW. to 2304 Pennsylvania Avenue NW., where the accommodations and facilities are much better. This change will be made July 1, 1929.

An earnest effort has been made to create more interest in prenatal clinics and the health department has now in operation three of these clinics. The total number of visits made by expectant mothers to these clinics was 702, of which 651 were colored and 51 white.

The total number of visits made by children to the various child-hygiene stations was 49,560, an increase of 1,292 as compared with the preceding year. In addition to these visits to the various stations, the nurses attached to the service made 31,195 visits to the homes of the children. With the opening of the new station at 518 M Street NW., making 11 stations in all, the city as a whole is fairly well provided; there are, however, some of the outlying sections which should be provided for as soon as it may be practicable to do so.

The following statement shows in detail the amount of work at the several stations:





## THE POUND SERVICE

During the fiscal year 6,768 animals were handled at the pound as follows: 5,112 dogs, 15 horses, 1 mule, 1 goat, 2 hogs, and 1,637 cats. These animals were disposed of as follows: 513 dogs redeemed, 1,186 dogs sold, 18 returned after quarantine, 3,322 killed, and 73 on hand at the end of the fiscal year; the cats were killed, and the other animals redeemed by the owners or sold by the poundmaster, as provided by law. Fees collected amounted to \$2,653.81.

## BUREAU OF VITAL STATISTICS

Eight thousand nine hundred and ninety-four births, 484 stillbirths, and 7,239 deaths were recorded during the year.

Three thousand eight hundred and seventy-eight transcripts from the records of births and deaths were issued.

Respectfully submitted.

W. C. FOWLER, M. D.,  
*Health Officer.*

TABLE 1A.—*Showing deaths and death rates in the District of Columbia during the calendar year 1928, arranged with reference to race, sex, marital relations, and nativity, and classified with reference to causes of death*

Classification No.	Cause of death	Total deaths				General death rates				Percentage of each cause to total mortality				Deaths by race and sex						Marital relations			
		Total deaths				General death rates				Percentage of each cause to total mortality				Deaths by race and sex						Marital relations			
		White	Colored	All		White	Colored	All						Male	Female	Male	Female	Male	Female	Married	Single		
SUMMARY																							
I.	Epidemic, endemic, and infectious diseases	422	449	871	0.994	3.519	1.578	12.032	244	178	239	210	109	62	81	85	110	94	126	98			
II.	General diseases not included in Class I	653	202	855	1.539	1.583	1.549	11.811	295	358	86	116	177	153	53	49	56	61	11	19			
III.	Diseases of the nervous system and of the organs of special sense	466	252	718	1.068	1.975	1.301	9.918	232	234	117	135	126	75	69	46	49	49	18	17			
IV.	Diseases of the circulatory system	1,103	500	1,603	2.590	4.624	3.067	23.387	601	502	306	284	331	126	165	113	94	99	47	31			
V.	Diseases of the respiratory system	388	367	755	.914	2.876	1.368	10.430	213	175	204	163	94	49	69	41	86	55	103	83			
VI.	Diseases of the digestive system	275	199	474	.648	1.550	.859	6.548	159	116	94	105	78	40	44	47	60	37	45	37			
VII.	Nonvenereal diseases of the genito-urinary system and annea	507	333	840	1.165	2.610	1.522	11.604	266	241	165	108	154	87	96	77	36	43	20	23			
VIII.	The puerperal state	39	31	70	.092	.243	.127	.967	39	39	6	5	1	2	2	1	1	2	3	9			
IX.	Diseases of the skin and of the cellular tissues	8	11	19	.019	.081	.034	.262	4	4	2	3	2	1	2	1	1	2	1	2			
X.	Diseases of the bones and of the organs of locomotion	4	5	9	.010	.019	.016	.124	2	2	3	3	2	1	2	1	1	2	3	3			
XI.	Malformations	29	6	35	.088	.047	.033	.483	19	10	3	3	3	3	3	3	19	10	3	3			
XII.	Early infancy	164	128	292	.386	1.003	.529	4.034	107	57	67	61	61	36	59	11	107	57	67	61			
XIII.	Old age	28	11	39	.086	.086	.070	.539	2	26	3	3	3	5	1	1	4	4	4	1			
XIV.	External causes	389	170	559	1.332	1.013	.722	7.722	271	118	130	40	116	36	59	11	123	38	44	17			
XV.	Ill-defined diseases	5	5	10	.012	.039	.018	.139	3	2	2	3	1	1	1	1	2	1	2	3			
Total		4,480	2,759	7,239	10.556	21.622	13.114	100.000	2,418	2,062	1,425	1,334	1,188	673	639	494	744	553	491	403			
I. Epidemic, endemic, and infectious diseases																							
Ia	Typhoid fever	6	9	15	.014	.070	.027	.207	5	1	7	2	3	3	5	2	1	2	2				
Ib	Malaria fever	1	1	2	.008	.002	.014	.007	1	1	1	1	1	1	1	1	1	1	1				
7	Measles	11	6	17	.021	.047	.031	.235	7	4	5	4	5	4	1	1	7	4	4				
8	Scarlet fever	7	1	8	.014	.008	.013	.037	6	3	9	6	1	1	1	1	4	3	9				
9	Whooping cough	7	15	22	.011	.117	.040	.304	4	3	9	6	1	1	1	1	4	3	9				
10	Diphtheria	23	20	43	.051	.154	.081	.622	7	18	10	10	10	9	8	4	7	6	4				
Iia	Influenza (with pulmonary complications)	53	21	74	.078	.161	.098	.746	19	11	10	11	9	1	1	1	6	4	10				
Iib	Influenza (without pulmonary complications)	20	10	30	.041	.078	.031	.415	7	13	3	7	4	3	2	2	3	16	1				



TABLE 1A.—Showing deaths and death rates in the District of Columbia during the calendar year 1928, arranged with reference to race, sex, marital relations, and nativity, and classified with reference to causes of death—Continued

Classification No.	Cause of death	Total deaths			General death rates			Deaths by race and sex				Marital relations			
		White	Colored	All	White	Colored	All	White		Colored		Married		Single	
								Male	Female	Male	Female	Male	Female	Male	Female
<i>II. General diseases not included in Class I—Continued</i>															
44	Cancer and other malignant tumors of the stomach, liver:														
	Cancer of esophagus.....	5	1	6	0.012	0.008	0.011	0.083		5		3			
	Cancer of gall bladder.....	3	2	5	.007	.016	.009	.069		1		1			
	Cancer of liver.....	40	6	46	.094	.047	.083	.335	17	23	1	13	12	2	1
	Melanotic carcinoma.....	1		1	.002		.002	.014				1			
	Cancer of pylorus.....	3	4	7	.007	.031	.013	.097	2	1	3	2	1	2	
	Cancer of stomach.....	80	24	104	.188	.188	.188	1.437	45	35	17	22	9	10	7
	Cancer of throat.....	1		1	.002		.002	.014	1			1			
	Cancer and other malignant tumors of the peritoneum, intestines, rectum:														
	Cancer of abdominal viscera.....	2	2	4	.005	.016	.007	.055	1	1	2	1			
45	Cancer of cecum.....	3		3	.007		.005	.041	3			2			
	Cancer of colon.....	8		8	.019		.014	.111	4	4		3		1	
	Cancer of duodenum.....	1		1	.002		.002	.014	1			1			
	Cancer of ileum.....	2		2	.005		.004	.028	1	1		1			
	Cancer of intestines.....	17		17	.040		.031	.235	6	11		4	2	1	3
	Cancer of peritoneum.....	2		2	.005		.004	.028							
	Cancer of rectum.....	21	4	25	.056	.031	.045	.345	16	2		9	1	1	1
	Cancer of sigmoid flexure.....	1		1	.002		.002	.014	1			1			
	Cancer and other malignant tumors of the female genital organs:														
	Cancer of cervix.....	8	1	9	.019	.008	.016	.125	4	4	1	3	2	1	
	Cancer of ovary.....	10	9	19	.024	.071	.034	.262	1	9		1	4	5	1
	Cancer of uterus.....	6	1	7	.014	.008	.013	.097	6			1		1	1
	Cancer of vagina.....	35	15	50	.082	.118	.090	.691	35	15		20	9	4	2
	Cancer of vulva.....	2		2	.005		.004	.028		2		1			
		1		1		.008	.002	.014							



47 Cancer and other malignant tumors of the breast:

Cancer of breast.....	62	16	78	.146	.125	.140	1.077	62	1	15	31	7	10
Paget's disease.....	1	1	1	.002	.....	.002	.011	1	1	1	1	1	1
Cancer and other malignant tumors of the skin:													
Cancer of eye and lid.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer of face.....	4	1	5	.010	.008	.009	.009	4	1	2	2	2	2
Cancer of nose.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer of right temporal lobe of cerebrum.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer of skull.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer and other malignant tumors of other or unspecified organs:													
Cancer of abdomen.....	12	12	12	.028	.....	.022	.166	4	8	1	5	1	2
Cancer of antrum.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer of bladder.....	20	3	23	.047	.024	.012	.318	12	8	3	7	4	1
Cancer of cervical lymph nodes.....	2	2	2	.005	.....	.004	.028	1	1	1	1	1	1
Cancer of femur.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer of inguinal glands.....	1	1	1	.008	.....	.002	.014	1	1	1	1	1	1
Cancer of kidney.....	7	1	8	.016	.008	.011	.111	2	5	1	1	1	3
Cancer of larynx.....	4	4	4	.010	.....	.007	.055	4	4	1	1	1	1
Cancer of leg.....	3	3	3	.024	.....	.005	.041	1	2	1	1	1	1
Cancer of lung.....	18	5	23	.042	.030	.042	.318	8	10	3	7	2	1
Cancer of mandible.....	4	1	5	.010	.008	.002	.014	1	3	1	1	1	1
Cancer of mediastinum.....	2	2	2	.005	.016	.011	.083	1	1	1	1	1	1
Cancer of neck.....	16	3	19	.038	.024	.004	.262	9	7	2	5	4	1
Cancer of pancreas.....	2	2	2	.005	.....	.004	.028	1	2	1	1	1	1
Cancer of penis.....	2	2	2	.005	.....	.004	.028	2	2	1	1	1	1
Cancer of prostate.....	27	4	31	.064	.031	.036	.423	27	4	4	18	4	2
Cancer of sacrum.....	1	1	1	.002	.008	.004	.028	1	1	1	1	1	1
Hemorrhagic sarcomatosis.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer of shoulder.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer of spinal vertebrae.....	3	1	4	.007	.....	.005	.041	1	2	1	1	1	1
Cancer of thigh.....	2	2	2	.005	.....	.004	.028	1	2	1	1	1	1
Cancer of thyroid.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Cancer of tibia.....	1	1	1	.002	.008	.004	.028	1	1	1	1	1	1
Adenocarcinoma.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Carcinomatosis general.....	6	6	6	.014	.....	.083	.083	2	4	1	4	1	1
Cancer involving all old viscera.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Sarcoma generalized.....	2	2	2	.005	.047	.014	.111	2	3	3	1	3	1
Lympho-sarcoma axillary nodes.....	2	2	2	.005	.....	.004	.028	1	1	1	1	1	1
Carcinoma of bones.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Benign tumors and tumors not returned as malignant (tumors of the female genital organs excepted):													
Papilloma of bladder.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Congenital tumor of mediastinal space.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Tumor of spinal cord.....	3	3	3	.007	.....	.005	.041	3	3	1	1	1	2
Cyst of pancreas.....	1	1	1	.008	.....	.002	.014	1	1	1	1	1	1
Acute rheumatic fever.....	6	6	6	.014	.....	.011	.083	2	4	2	2	2	1
Rheumatic endocarditis.....	7	7	7	.055	.....	.013	.097	7	7	5	1	2	3

50 Benign tumors and tumors not returned as malignant (tumors of the female genital organs excepted):

Papilloma of bladder.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Congenital tumor of mediastinal space.....	1	1	1	.002	.....	.002	.014	1	1	1	1	1	1
Tumor of spinal cord.....	3	3	3	.007	.....	.005	.041	3	3	1	1	1	2
Cyst of pancreas.....	1	1	1	.008	.....	.002	.014	1	1	1	1	1	1
Acute rheumatic fever.....	6	6	6	.014	.....	.011	.083	2	4	2	2	2	1
Rheumatic endocarditis.....	7	7	7	.055	.....	.013	.097	7	7	5	1	2	3

51







91	Diseases of the arteries:	11	17	28	.133	.051	.387	9	2	12	5	7	6	7	5	4	2	1
91a	Aneurysm.....	73	41	114	.172	.321	1.575	31	42	16	23	12	8	5	5	4	2	1
91b	Atherosclerosis.....	2	1	3	.008	.005	.041	—	2	1	—	—	—	—	—	—	—	—
91c	Arteritis.....	1	2	3	.002	.016	.003	—	2	1	1	1	1	1	1	1	1	—
	Endarteritis obliterans.....	2	—	2	.005	.004	.028	—	2	—	—	—	—	—	—	—	—	—
	Thromboangitis obliterans.....	—	—	—	.016	.004	.028	—	—	—	—	—	—	—	—	—	—	—
92	Embolism and thrombosis (not cerebral):	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Coronary occlusion.....	3	—	3	.007	.005	.041	1	2	—	—	—	—	—	—	—	—	—
	Embolism and thrombosis.....	20	5	25	.048	.046	.345	11	9	2	3	10	6	1	2	2	1	1
93	Diseases of the veins (varices, hemorrhoids, phlebitis, etc.):	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
93a	Phlebitis.....	2	—	2	.005	.004	.028	—	2	—	—	—	—	—	—	—	—	—
93b	Rupture of varicose veins.....	—	1	1	.008	.002	.014	—	—	1	—	—	—	—	—	—	—	—
	Varicose ulcer of legs.....	—	1	1	.008	.002	.014	—	—	—	1	—	—	—	—	—	—	—
93c	Hemorrhoids.....	—	1	1	.008	.002	.014	—	—	—	1	—	—	—	—	—	—	—
94	Diseases of the lymphatic system, laryngitis, etc.):	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Adenitis.....	1	—	1	.002	.002	.014	1	1	—	—	1	—	—	—	—	—	—
	Sclerosis of suprarenal glands.....	1	—	1	.002	.002	.014	—	1	—	—	—	—	—	—	—	—	—
	Total diseases of the circulatory system.....	1,103	590	1,693	2,599	4,624	3,067	23,387	601	502	284	331	126	165	113	94	99	47
	<i>V. Diseases of the respiratory system</i>																	
97b	Sinusitis.....	4	—	4	.010	.007	.055	3	1	—	—	2	—	—	—	1	1	—
98a	Laryngeal edema.....	1	—	1	.002	.002	.014	—	1	—	—	—	—	—	—	—	—	—
98a	Bronchitis (acute).....	8	13	21	.019	.038	.290	3	5	8	5	1	3	—	2	1	—	—
99b	Bronchitis (chronic).....	9	3	12	.021	.024	.166	4	5	3	2	2	1	—	2	5	5	5
99c	Bronchitis (unspecified) (under 5 years old).....	1	—	1	.002	.002	.014	1	—	—	—	—	—	—	—	—	—	—
99d	Bronchitis (unspecified) (5 years and over).....	—	—	—	.002	.002	.014	—	—	—	—	—	—	—	—	—	—	—
00a	Broncho-pneumonia.....	135	133	268	.318	.485	3.702	70	65	68	65	25	19	12	7	33	21	48
00b	Capillary pneumonia.....	2	4	6	.005	.031	.011	1	3	1	1	—	—	—	—	3	3	1
01a	Lobar pneumonia.....	176	185	331	.415	.600	4.572	111	65	91	64	54	22	39	26	39	21	36
01b	Pneumonia (unspecified).....	22	11	33	.052	.086	.090	9	13	3	8	5	4	2	2	4	2	1
02	Pleurisy.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
02a	Empyema.....	3	6	9	.007	.047	.016	1	2	5	1	1	1	1	1	1	1	2
02b	Pyothorax.....	1	—	1	.002	.002	.014	1	—	—	—	—	—	—	—	—	—	—
02b	Pleurisy.....	4	14	18	.010	.032	.249	2	2	8	6	1	3	2	2	1	3	1
03	Congestion and hemorrhagic infarct of the lung:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Hypostatic pneumonia.....	5	1	6	.012	.008	.011	.083	1	4	1	1	1	—	—	—	—	—
	Pulmonary edema.....	3	2	5	.007	.016	.009	.069	2	1	2	1	1	—	—	—	—	—
	Terminal pneumonia.....	1	—	1	.002	.002	.041	—	—	—	—	—	—	—	—	—	—	—
04	Gangrene of lung.....	1	2	3	.002	.016	.005	.041	1	1	1	1	—	—	—	—	—	—
05	Bronchial asthma.....	6	6	12	.014	.047	.166	2	4	5	1	1	4	1	1	2	1	1
06	Pulmonary emphysema.....	—	—	—	.016	.004	.028	—	—	—	—	—	—	—	—	—	—	—
07a	Pulmonary tuberculosis (excepted):	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
07a	Interstitial pneumonia.....	1	1	1	.008	.002	.014	—	1	1	1	—	—	—	—	—	—	—
07a	Abscess of lung.....	4	8	12	.010	.063	.222	.166	2	5	3	2	2	1	2	1	1	1
07c	Pulmonary hemorrhage.....	1	4	5	.002	.031	.009	.069	1	3	1	—	—	—	—	—	—	—
07c	Respiratory paralysis.....	1	2	2	.016	.004	.028	—	—	1	—	—	—	—	—	—	—	—
	Total diseases of the respiratory system.....	388	367	755	.914	2.876	1.308	10,430	175	204	163	94	49	69	41	86	55	103
																		83



118b	Intestinal obstruction	41	28	69	.007	.219	.125	.953	21	20	3	25	13	9	2	13	4	3	1	5
118b	Paralytic ileus	5	5	5		.039	.009	.069			2	3			1	2			1	1
119	Other diseases of the intestines:																			
119c	Peritonitis	1	2	2	.002	.016	.004	.028	1		1	1	1	1	1	1				
	Ischuria in ano	1					.002	.014	1			1	1							
	Ischorectal abscess	1				.008	.002	.014				1	1							
119d	Proctitis	1		1	.002	.008	.002	.014	1			1	1							
	Intestinal auto-intoxication	1					.002	.014				1	1							
	Intestinal stasis	2		2	.002	.005	.004	.028	1	1		1	1							1
	Paralysis of small intestines	1		1	.002	.016	.004	.028	1		1	1	1							
120	Acute yellow atrophy of liver	2	2	2	.032	.086	.004	.456	18	4	8	3	11	6	2	3	2	2	2	
122b	Cirrhosis of the liver	22	11	33			.004	.004												
123	Biliary calculi:						.026	.194	2	12		1	2	7						
	Cholelithiasis	14	2	14	.033	.005	.041	.041	1	1		1	1							
	Gall stones	2	1	3	.005	.008	.005	.041	1			1	1							
124	Other diseases of the liver:																			
124a	Abscess of liver	3	1	4	.007	.008	.007	.055	2	1	1		1	1	1	1				
	Empyema of gall bladder	1		1	.002		.002	.014					1							
	Gangrene of gall bladder	3		3	.007		.005	.041	1	2			1	2						
	Perforation of gall bladder	3		3	.007		.005	.041	1	2			1	2						
124b	Cholecystitis	6	6	12	.014	.047	.022	.166	1	5	4	2	1	3	1	2				
	Acute hepatitis	3		3	.007		.005	.041	2	1			1							
	Catarrhal jaundice	1		1	.002		.002	.014		1			1							
124d	Obstructive jaundice	2		2	.005		.004	.028	2				1							
125	Diseases of the pancreas:																			
	Pancreatitis	1		1		.008	.007	.014				1		1						
	Acute hemorrhagic pancreatitis	4		4	.010		.007	.055	3	1			1	1						
125	Peritonitis without specified cause:																			
	Peritonitis general	5		5	.012		.009	.069	1	4			2	2		1	1			
	Serous peritonitis	2		2	.005		.004	.028	2				1							
	Streptococcal peritonitis	2	3	3	.024		.005	.041			1	2		1	1					1
	Total diseases of the digestive system	275	199	474	.648	1.560	.859	6.548	159	116	94	105	78	40	44	47	60	37	45	37
VII. Nonvenereal diseases of the genito-urinary system and annera																				
128a	Acute nephritis (including unspecified), under 10 years of age	21	40	61	.049	.313	.110	.843	12	9	17	23	6	3	6	12	5		6	3
128a	Chronic nephritis (including unspecified), 10 years and over	444	244	688	1.046	1.912	1.246	9.504	233	211	126	118	137	72	74	51	25	36	13	13
129b	Uremic apoplexy	1		1	.008		.002	.014			1				1					
131	Other diseases of the kidneys and annexa:																			
131a	Abscess of kidneys	1	3	4	.002	.024	.007	.055	1		2	1	1	1	1	1				
	Hydronephrosis	2		2	.005		.004	.028	2				1							
	Pyelitis	5		5	.012		.009	.069	2	3			2	2	2	1	1			
	Pyelonephritis	4	2	6	.010	.016	.011	.083	2	2	1	1	1	1	1	1	1	1	1	1
	Pyonephrosis	3		3	.024		.005	.041				3			2					
	Renal insufficiency	1		1	.002	.024	.002	.014	1				1							
131c	Nephrolithiasis	1		1	.002		.002	.014	1				1							
132a	Diseases of the bladder:																			
133a	Purulent cystitis	2		2	.016		.004	.028			2				1					
133a	Ruptured bladder	1		1	.008		.002	.014			1									
133b	Cystitis	2		2	.005		.004	.028	2				2							

TABLE 1A.—Showing deaths and death rates in the District of Columbia during the calendar year 1928, arranged with reference to race, sex, marital relations, and nativity, and classified with reference to causes of death—Continued

Classification No.	Cause of death	Total deaths			General death rates			Deaths by race and sex						Marital relations			
		White	Colored	All	White	Colored	All	Percentage of each cause to total mortality	Male	Female	Male	Female	Male	Female	White	Colored	Single
<b>VII. Nonvenereal diseases of the genito-urinary system and annexa—Continued</b>																	
134	Diseases of the urethra, urinary abscess, etc.:																
134a	Extravasation of urine		1	1		0.008	0.002	0.014			1						
134a	Stricture of urethra		1	1		.008	.002	.014			1						
134b	Ruptured urethra		1	1		0.002	.002	.014									
	Periurethral abscess					.008	.002	.014									
135	Diseases of the prostate	9	12	21	.021	.094	.038	.290	9		12	5	10	2			
137	Ovarian cyst	1	2	3	.002	.016	.005	.041			1		1				1
138	Salpingitis and pelvic abscess (female):																
	Pelvic abscess	1	3	4	.002	.024	.007	.055			1		3				1
	Pyosalpingitis		5	5	.012	.008	.009	.069			5		4				1
	Ruptured abscess of broad ligament		1	1		.008	.002	.014					1				
	Salpingitis, chronic		3	3		.024	.005	.041					3				1
	Salpingoophoritis		1	1		.002	.002	.014					1				
	Tuboovarian abscess		1	1		.002	.002	.014					1				
139	Fibroid uterus (nonpuerperal)	5	10	15	.012	.078	.027	.207	5		10	3	5	2			2
140	Uterine hemorrhage (nonpuerperal)						.002	.014					1				1
141	Other diseases of the female genital organs:																
	Menopause		1	1		.008	.002	.014					1				
	Pelvic inflammation		1	1		.008	.002	.014					1				1
	Ruptured uterus		1	1		.008	.002	.014					1				
142	Mammary abscess		1	1		.002	.002	.014					1				
<b>Total nonvenereal diseases of the genito-urinary system and annexa</b>																	
		507	333	840	1.195	2.610	1.522	11.604	266	241	165	168	154	87	96	77	43
																	23
<b>VIII. The puerperal state</b>																	
143a	Accidental abortion		2	2	.005	.016	.004	.028					2				1
	Accidental miscarriage	2	2	4	.005	.016	.004	.028					2				
	Incomplete abortion (self-induced)	1	1	2	.002	.002	.002	.014					1				



143b	Ectopic pregnancy.....	2	3	5	.005	.024	.009	.009	2	3	2	2	1
143c	Hydatiform mole.....	2	1	1	.005	.008	.004	.014	2	1	1	1	1
	Pregnancy.....	1	1	2	.002	.008	.004	.028	1	1	1	1	1
	Perforious vomiting of pregnancy.....	1	1	1	.002	.008	.004	.028	1	1	1	1	1
144	Puerperal hemorrhage.....	3	1	2	.002	.008	.004	.028	3	2	2	2	1
144a	Placenta praevia.....	1	1	1	.002	.008	.004	.028	1	1	1	1	1
144b	Postpartum hemorrhage.....	3	1	5	.007	.016	.009	.069	3	3	3	3	1
145	Other accidents of labor.....	2	1	3	.005	.008	.005	.041	2	1	2	2	1
145a	Cesarean section.....	2	3	5	.005	.024	.009	.069	2	3	2	3	1
145c	Rupture of pregnant uterus.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Shock of birth.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
146	Puerperal septicaemia.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Puerperal peritonitis.....	15	10	25	.035	.078	.046	.345	13	10	13	6	4
	Puerperal septicemia.....	2	4	6	.005	.031	.011	.083	2	4	2	3	1
148	Puerperal albuminuria and convulsions.....	4	1	5	.010	.008	.009	.069	4	1	4	1	1
	Eclampsia of pregnancy.....	1	1	1	.008	.002	.002	.014	1	1	1	1	1
	Nephritis of pregnancy.....	1	1	1	.008	.002	.002	.014	1	1	1	1	1
150	Toxemia of pregnancy.....	39	31	70	.092	.243	.127	.967	39	31	36	22	9
	Mastitis (puerperal).....												
	Total, the puerperal state.....												
<i>IX. Diseases of the skin and of the cellular tissues</i>													
151a	Gangrene of feet.....	3	3	6	.007	.024	.011	.083	2	1	3	1	1
	Gangrene of leg.....	2	2	2	.016	.016	.004	.028	2	1	1	1	1
151b	Gangrene of scrotum.....	2	2	2	.016	.016	.004	.028	2	1	1	1	1
	Scirrhous gangrene.....	1	1	1	.008	.002	.002	.014	1	1	1	1	1
152	Furunculosis.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Carbuncles.....	1	1	1	.008	.008	.002	.014	1	1	1	1	1
153	Abscess of the abdominal wall.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Multiple abscess of intestinal organs.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Retropharyngeal abscess.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Subdiaphragmatic abscess.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Subpectoral abscess.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
154	Ulcer of legs.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Total, diseases of the skin and of the cellular tissues.....	8	11	19	.019	.086	.034	.262	4	6	5	2	3
<i>X. Diseases of the bones and of the organs of locomotion</i>													
155a	Osteomyelitis.....	4	5	9	.010	.039	.016	.124	2	3	2	1	2
<i>XI. Malformations</i>													
159a	Hydrocephalus.....	5	1	6	.012	.008	.011	.083	2	3	1	2	3
159b	Congenital heart disease.....	2	2	2	.005	.004	.028	.028	2	2	2	2	1
	Oval foramen ovale.....	6	6	6	.014	.016	.011	.083	5	1	1	3	2
	Pulmonic stenosis.....	2	2	2	.016	.016	.004	.028	2	2	2	2	1
159c	Cerebral deformity.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Cleft palate.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Congenital extrophy of bladder.....	1	1	1	.002	.002	.002	.014	1	1	1	1	1
	Congenital malformation.....	3	3	3	.007	.007	.005	.041	2	2	2	2	1



162	Other diseases peculiar to early infancy:																					
	13	7	20	.081	.055	.036	.276	9	4	5	2							9	4	5	2	
	7	7	7	.016		.067	.067	4	3									4	3			
	3	8	6	.007	.034	.111	.083	1	2	3	5							1	2	3	5	
	2		2	.005	.024	.011	.028	1	1	2	1							1	2	2	1	
																		1	1			
	164	128	292	.386	1.003	.529	4.034	107	57	67	61							107	57	67	61	
164	XIII. Old age																					
	28	11	39	.036	.096	.070	.539	2	26	3	8							5	1	4	1	
	XIV. External causes																					
	Suicide by—																					
	1		1	.002		.002	.014	1	5									1				
165	5		5	.012		.001	.069	2														
166	2		2	.005		.004	.028	2										2				
	2	1	3	.005	.008	.005	.041	1	1									1	1			
	1		1	.002		.002	.014	1														
	3		3	.007	.005	.005	.041	3										1				
167	40	2	42	.094	.016	.077	.380	23	17	1	12	7	1	1	9	5						
	1		1	.002		.002	.014	1														
	6		6	.014		.011	.083	6										4				
168																						
169	31	1	32	.072	.008	.039	.442	24	7			13	2									
170	3		3	.007	.007	.053	.053	3										7	5			
171	1		1	.002	.008	.034	.028	1										1				
172	8	1	9	.019		.008	.016	8										1				
173	1		1	.008	.002	.014	.125	1										4				
174	1		1	.008	.002	.014		1										1				
175																						
176																						
177																						

TABLE 1A.—*Showing deaths and death rates in the District of Columbia during the calendar year 1928, arranged with reference to race, sex, marital relations, and nativity, and classified with reference to causes of death—Continued*

Classification No.	Cause of death	Total deaths			General death rates			Percentage of each cause to total mortality	Deaths by race and sex				Marital relations				
									Single								
		Married															
		White	Colored	All	White	Colored	All		White		Colored		White		Colored		
Male	Female							Male	Female	Male	Female	Male	Female				
XIV. External causes—Continued																	
184	Accidental traumatism by cutting or piercing instruments:																
	Stuck pitchfork in leg.....	1		1	.002		.002	1				1					
	Swallowed olive fork.....	1		1	.002		.002	1				1					
185	Accidental traumatism by fall.....	57	16	73	.131	.125	.132	28	29	10	6	10	2	6	1	13	4
187	Accidental traumatism by machines.....	2	2	4	.004	.016	.008			2		1				4	2
	Explosion of engine.....	1		1	.002		.002	1				1				1	1
	Bucked steel boom.....	1		1	.002		.002	1				1					
	Struck by lumber from saw mill.....	1		1	.002		.002	1				1					
	Struck by falling timber from hoisting machine.....	1		1	.002		.002	1				1					
	Elevator accident.....	1		1	.008		.002			1							
188	Accidental traumatism by other crossing vehicles, railways, land-slides, etc.:																
	Railroad accidents.....	6	3	9	.014	.024	.016	5	1	3		3	1	1	1	1	2
188a	Electric street car accidents.....	8	4	12	.019	.031	.022	7	1	4		3	1	5	1	1	
188b	Automobile accidents.....	87	33	120	.205	.258	.217	66	21	25	8	29	4	9	4	32	8
188c	Airplane accidents.....	3	3	6	.007		.005	3		1		2	1	1	3	3	6
188d	Motor-cycle accidents.....	5	1	6	.012	.008	.011	5		1					1		
188e	Bicycle accidents.....	1		1	.002		.002	1				1			1		
188f	Struck by falling tree.....	1		1	.002		.002			1							
188g	Logs falling from wagon.....	1		1	.008		.002			1							
	Collapse of building.....	3	3	6	.024	.005	.041	4		3		1		1		2	
	Falling earth.....	2	2	4	.016		.028			2		1		1		1	
	Full of weight upon foot.....	1	1	2	.008		.002	1		1		1				1	
189	Bitten by dog.....	1		1	.002		.002					1					
194	Excessive heat.....	5	5	10	.012	.039	.018	3	3	3	2	1	1	1	1	2	1
196	Accidental electric shock.....	5	1	6	.012	.008	.011	5		1		3	1	1	2	1	
197	Homicide by firearms.....	10	23	33	.024	.180	.060	6	4	17	6	4	3	8	2	1	6
198	Homicide by stab wound.....	4	4	8	.031	.007	.055			4			3	3			





[illegible]

## II. General diseases not included in Class I

[illegible]





[illegible]

TABLE 1A.—Showing deaths and death rates in the District of Columbia during the calendar year 1928, arranged with reference to race, sex, marital relations, and nativity, and classified with reference to causes of death—Continued

Classification No.	Cause of death	Marital relations						Nativity											
		Widow or widower			Unknown			District of Columbia				Other parts of the United States				Foreign		Unknown	
		White		Colored		White		Colored		White		Colored		White		Colored		White	
		Male		Female		Male		Male		Male		Male		Male		Male		Male	
		Female		Male		Female		Female		Female		Female		Female		Female		Female	
52	Chronic rheumatism, osteoarthritis, gout: Chronic rheumatism.....	7		2						1	8							1	
	Arthritis.....																		
54	Pellagra.....			1															
56	Rickets.....																		
57	Diabetes mellitus.....	5	25	3	13	4	1	1	1	11	9	3	5	23	25	10	20	9	15
57	Diabetic gangrene of foot.....																		
58	Anemia, chlorosis: Pernicious anemia.....	1								3				1	4	1	1	1	1
58a	Splenic anemia.....	1												4	1				
58b	Tumor of pituitary gland.....																		
59	Diseases of the thyroid gland: Exophthalmic goiter.....																		
60	Hyperthyroidism.....	1												2	1		2	2	1
60a	Thyrototoxicosis.....			1										1	1		1		
	Toxic adenomatous goiter.....			1										1	1		1		
	Cystic goiter.....	1																	
60b	Thyroidism.....																		
	Cretinism.....													1			1		
	Goiter.....																		
61	Tetany.....																		
62	Diseases of the thymus gland: Persistent thymus.....									1									
	Status lymphaticus.....																		
63	Addison's disease.....													1	1		1	1	1
64	Diseases of the spleen: Atresia of spleen.....													2					
	Splenomegaly.....																		

II. General diseases not included in Class I—Continued

[illegible]





TABLE 1A.—Showing deaths and death rates in the District of Columbia during the calendar year 1928, arranged with reference to race, sex, marital relations, and nativity, and classified with reference to causes of death—Continued

Classification No.	Cause of death	Marital relations						Nativity									
		Widow or wid- ower			Unknown			District of Co- lumbia		Other parts of the United States		Foreign		Unknown			
		White		Colored	White		Colored	White		Colored	White		Colored	White		Colored	
		Male		Female	Male	Female	Male	Female	Male		Female	Male		Female	Male		Female
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<i>VI. Diseases of the digestive system</i>																	
Diseases of the mouth and annexa:																	
108	Ludwig's angina.....																
108a	Alveolar abscess.....																
108b	Ulcerative stomatitis.....																
109	Diseases of the pharynx and tonsils (including adenoid vege- tations):																
109b	Angina of tonsil.....																
	Follicular tonsillitis.....																
	Peritonsillar abscess.....																
	Pharyngitis.....																
	Retropharyngeal abscess.....																
	Septic sore throat.....																
	Vincent's angina.....																
110	Diseases of the esophagus:																
110a	Stricture of esophagus.....																
110b	Ulcer of esophagus.....																
111	Ulcer of the stomach and duodenum:																
111a	Gastric ulcer.....																
111b	Duodenal ulcer.....																
112	Gastritis.....																
112c	Diarrhea and enteritis (under 2 years of age).....																
113	Diarrhea and enteritis (2 years and over).....																
114	Appendicitis and typhlitis:																
117	Appendicitis.....																
117a	Appendicitis.....																
117b	Hernia, intestinal obstruction:																
118	Strangulated inguinal hernia.....																
118a	Strangulated femoral hernia.....																
	Ruptured colon (nontraumatic).....																

[illegible]

## VII. Nonvenereal diseases of the genito-urinary system and annera

128a	Acute nephritis (including unspecified), under 10 years of age
129a	Chronic nephritis (including unspecified), 10 years and over
129b	Uremic apoplexy
131	Other diseases of the kidneys and annexa:
131a	Abscess of kidneys
	Hydronephrosis
	Pyelitis
	Pyelonephritis
131c	Pyonephrosis
	Renal insufficiency
132a	Nephrolithiasis

TABLE 1A.—Showing deaths and death rates in the District of Columbia during the calendar year 1928, arranged with reference to race, sex, marital relations, and nativity, and classified with reference to causes of death—Continued

Classification No.	Cause of death	Marital relations				Nativity																		
		Widow or wid- ower		Unknown		District of Co- lumbia		Other parts of the United States		Foreign		Unknown												
		White	Colored	White	Colored	White	Colored	White	Colored	White	Colored	White	Colored											
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female											
<i>VII. Nonvenereal diseases of the genito-urinary system and annexa—Continued</i>																								
33	Diseases of the bladder:																							
33a	Purulent cystitis.....																							
33b	Ruptured bladder.....																							
34	Cystitis.....	1																						
34a	Diseases of the urethra, urinary abscess, etc.:																							
34b	Extravasation of urine.....																							
34c	Stricture of urethra.....																							
34d	Ruptured urethra.....	1																						
35	Periurethral abscess.....																							
36	Diseases of the prostate.....	2																						
37	Ovarian cyst.....																							
38	Salpingitis and pelvic abscess (female):																							
	Pelvic abscess.....																							
	Pyosalpingitis.....																							
	Ruptured abscess of broad ligament.....																							
	Salpingitis, chronic.....																							
	Salpingoophoritis.....																							
	Tuboovarian abscess.....	1																						
39	Fibroid uterus.....																							
40	Uterine hemorrhage (nonpuerperal).....	3																						
41	Other diseases of the female genital organs:																							
	Menopause.....																							
	Pelvic inflammation.....	1																						
	Ruptured uterus.....																							
42	Mammary abscess.....																							
	Total nonvenereal diseases of the genito-urinary system and annexa.....	65	106	44	66	11	5	5	2	56	54	29	34	164	149	128	133	39	36	2	7	2	6	4

























86	Diseases of the ear and mastoid process:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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97b	Sinusitis
98a	Bronchitis (acute)
99a	Bronchitis (chronic)
99c	Bronchitis (unspecified, under 5 years old)
99d	Bronchitis (unspecified, 5 years and over)
100a	Broncho-pneumonia
100b	Capillary bronchitis
101a	Lobar pneumonia
101b	Pneumonia (unspecified)
102	Pleurisy
102a	Empyema
	Pyothorax
102b	Pleurisy



[illegible]

## VII. Nonvenereal diseases of the genito-urinary system and annera

[illegible]

TABLE 1B.—Showing deaths in the District of Columbia during the calendar year 1928, arranged with reference to months, and classified with reference to race, sex, and causes of death—Continued

Classification No.	Cause of death	January				February				March				April				May				June			
		White		Colored	White		Colored	White		Colored	White		Colored	White		Colored	White		Colored	Male	Female				
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female				
VII. Nonvenereal diseases of the genito-urinary system and annexa—Continued																									
135	Diseases of the prostate.....			1				2		2	1	1													
137	Ovarian cyst.....																								
138	Salpingitis and pelvic abscess (female):																								
	Pelvic abscess.....																								
	Pyosalpingitis.....																								
	Salpingitis, chronic.....			1																					
	Salpingo-oophoritis.....																								
	Tuboovarian abscess.....			1																					
139	Fibroid uterus.....																								
141	Other diseases of the female genital organs:																								
	Ruptured uterus.....																								
	Mammary abscess.....																								
142	Total, nonvenereal diseases of the genito-urinary system and annexa.....	23	22	19	23	20	23	16	10	19	23	21	18	26	18	13	11	27	25	17	15	24	29	15	13
VIII. The puerperal state																									
143b	Accidental miscarriage.....																								
143c	Ectopic pregnancy.....																								
143c	Hydatidiform mole.....																								
144	Pregnancy.....																								
144b	Puerperal hemorrhage:																								
145	Postpartum hemorrhage.....																								
145a	Other accidents of labor:																								
145c	Cesarean section.....																								
145c	Rupture of pregnant uterus.....																								
146	Puerperal septicemia:																								
	Puerperal peritonitis.....																								
	Puerperal septicemia.....																								
148	Puerperal albuminuria and convulsions:																								
	Eclampsia of pregnancy.....																								
	Nephritis of pregnancy.....																								
	Toxemia of pregnancy.....																								
	Total, the puerperal state.....	2	3	3	4	3	4	4	4	4	4	4	1	3	3	2	6	2	1	2	2	2	2	3	3







[illegible]

142 of the above accidents happened outside of the District of Columbia.



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Diseases of the ear and mastoid process:	sg	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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TABLE 1B.—Showing deaths in the District of Columbia during the calendar year 1928, arranged with reference to months, and classified with reference to race, sex, and causes of death—Continued

Classification No.	Cause of death	July				August				September				October				November				December			
		White		Colored		White		Colored		White		Colored		White		Colored		White		Colored		White		Colored	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<b>VII. Nonvenereal diseases of the genito-urinary system and annexa—Continued</b>																									
140	Uterine hemorrhage (nonpuerperal)		1																						
141	Other diseases of the female genital organs:																								
	Menopause																								1
	Pelvic inflammation																								1
	Total, nonvenereal diseases of the genito-urinary system and annexa	13	17	9	12	15	17	11	14	23	10	9	15	17	15	12	11	33	26	7	13	26	16	16	13
<b>VIII. The puerperal state</b>																									
143a	Accidental abortion				1				1																
143b	Incomplete abortion (self-induced)						1						1												
	Ectopic pregnancy																								
	Pregnancy		1						1																1
	Premature vomiting of pregnancy																								
	Puerperal hemorrhage:												1												
	Placenta previa		1										1												1
144b	Postpartum hemorrhage				1																				
145	Other accidents of labor:																								
145a	Cesarean section		1																						
145c	Rupture of pregnant uterus						2																		
	Shock of birth												1												
146	Puerperal septicemia:																								
	Puerperal septicaemia		1				1		1		2		1		1		1		1		2				
148	Puerperal albuminuria and convulsions:																								
	Eclampsia of pregnancy		2																						
	Nephritis of pregnancy		1						1																
150	Mastitis (puerperal)																								
	Total, the puerperal state	7		5		5		5	3	4		3		1		2		2		3					2









[illegible]

### III. General diseases not included in Class I

Cancer and other malignant tumors of the stomach, liver:

Cancer of liver  
Cancer and other malignant tumors of other or unspecified organs.

**Cancer of kidneys-----**

Rickets.....

-----  
Tetany-----

Diseases of the thymus gland:  
Neospirocytic thymoma

Persistent thymus-----  
Status lymphaticus

### Leukemia and Hodgkin's disease:

Lymphatic leukemia.....

Other general diseases:

Acidosis.....  
Hemophilic.....

генералштаб.....

Total general diseases not included in Class I-----

**Figure 1**

*Diseases of the nervous system and of the organs of special sense*

Encephalitis

**Encephalitis:**

Simple meningitis.....

**Cerebral hemorrhage, apoplexy:**

Cerebral hemorrhage.....

**Cerebral embolism and thrombosis.....**  
**Paralysis without specified cause.**

Paralysis of respiratory center

**Abstract**

TABLE 1c.—Showing deaths in the District of Columbia during the calendar year 1928, arranged with reference to ages of decedents and classified with reference to race, sex, and causes of deaths—Continued

Classification No.	Cause of death	Under 1 year				1 year				2 years				3 years				4 years				Total under 5 years								
		White		Colored		White		Colored		White		Colored		White		Colored		White		Colored		White		Colored		Total by race				
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	White	Colored	White	Colored	All		
III. Diseases of the nervous system and of the organs of special sense—Continued																														
78	Epilepsy.....																													
80	Infantile convulsions (under 5 years of age).....																													
84	Other diseases of the nervous system:																													
	Cerebral tumor.....																													
84c	Idiocy.....																													
	Total diseases of the nervous system and of the organs of special sense.....	3	3	2	3	1	3	1	1	1	1	1	1					2	1					5	7	4	5	12	9	21
IV. Diseases of the circulatory system																														
88	Endocarditis and myocarditis (acute):																													
88b	Endocarditis and myocarditis (acute):																													
90	Other diseases of the heart:																													
90a	.....																													
90c	.....																													
90d	.....																													
	Total diseases of the circulatory system.....	1	1	1	1	1	1	1	1	1	1	1	1											4	1	1	4	2	6	
V. Diseases of the respiratory system																														
98a	Laryngeal edema.....																													
99a	Bronchitis (acute).....	1	2	4																										
99c	Bronchitis (unspecified; under 5 years old).....																													
100a	Broncho-pneumonia.....	12	10	29	4	1	8	1	3	4	2													19	12	41	40	31	81	112
100b	Capillary bronchitis.....																													
101a	Lobar pneumonia.....	4	1	9	4	1	2	6	1	1	1													7	5	16	5	12	21	33
101b	Pneumonia (unspecified).....	1	1	1																				1	1	1	2	13	4	







	Intracranial hemorrhage	23	6	31	4								23	6	3	4	20	7	36
	Placenta previa			1												1		1	1
	Strangulation of funis																		
162	Other diseases peculiar to early infancy:																		
	Atelectasis	9	4	5	2														
	Asphyxia of new born	4	3																
	Asphyxia neonatorum	1	2	3	5														
	Hemorrhage of new born	1	2	1															
	Sepsis of new born	1	1																
	Total early infancy	107	57	67	61														
	XIV. External causes																		
177	Other accidental poisonings (gas excepted):																		
	Swallowed lye						1												
	Medic poisoning																		
	Swallowed vick ointment																		
	Swallowed oil of gaultheria						1												
179	Accidental burns (conflagration excepted)																		
180	Accidental mechanical suffocation:						2	3											
	Accidental smothered, overlain																		
	Accidental smothered turned over on face																		
182	Accidental drowning	1	1																
185	Accidental traumatism by fall																		
188	Accidental traumatism by other crushing vehicles, railways, landslides, etc.:																		
188c	Automobile accidents																		
202	Other external violence:																		
	Foreign body in trachea																		
	Total external causes	1	1	2			2	3											
	XV. Cause of death not specified or ill defined																		
203a	Asphyxia convulsions	1																	
	Difficult dentition																		
	Marasmus						1												
205b	Malnutrition																		
	Unknown	1	1																
	Total cause of death not specified or ill defined	2	1				2	1											

<sup>1</sup> 42 of the above accidents happened outside of the District of Columbia.







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TABLE 1c.—Showing deaths in the District of Columbia during the calendar year 1928, arranged with reference to ages of decedents and classified with reference to race, sex, and causes of deaths—Continued

Classification No.	Cause of death	5 to 9 years years		10 to 19 years		20 to 29 years		30 to 39 years		40 to 49 years		50 to 59 years		60 to 69 years		70 to 79 years		80 to 89 years		90 and over years	
		White	Col- ored	White	Col- ored	White	Col- ored	White	Col- ored	White	Col- ored	White	Col- ored	White	Col- ored	White	Col- ored	White	Col- ored	White	Col- ored
<i>V. Diseases of the respiratory system</i>																					
97b	Sinusitis.....			1		2															
99a	Bronchitis (acute).....			1		2	1														
99b	Bronchitis (chronic).....																				
99d	Bronchitis (unspecified; 5 years and over).....																				
00a	Broncho-pneumonia.....	1	1	3	1	2	3	2	5	4	8	5	3	4	3	5	2	4	3	5	5
00b	Capillary bronchitis.....																				
01a	Lobar pneumonia.....	3	2	1	3	1	5	7	4	15	13	16	6	17	12	20	7	16	7	21	12
01b	Pneumonia (unspecified).....	1		1				2	2		1	4	2	2							
02	Pleurisy.....																				
02a	Empyema.....			1		1	1														
02b	Pyothorax.....																				
02c	Pleurisy.....			1	2	1															
03	Congestion and hemorrhagic infarct of the lung:																				
	Hypostatic pneumonia.....																				
	Pulmonary edema.....																				
	Terminal pneumonia.....																				
04	Gangrene of lung.....																				
05	Bronchial asthma.....																				
06	Pulmonary emphysema.....																				
07	Other diseases of the respiratory system (tuberculosis excepted):																				
07a	Interstitial pneumonia.....																				
07c	Abscess of lung.....			1		1	1	2													
	Pulmonary hemorrhage.....																				
	Respiratory paralysis.....																				
	Total diseases of the respiratory system.....	3	3	1	2	8	4	6	10	13	8	25	23	29	13	26	19	30	13	29	21
																	</				





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[illegible]

TABLE 1C.—Showing deaths in the District of Columbia during the calendar year 1928, arranged with reference to ages of decedents and classified with reference to race, sex, and causes of deaths—Continued

Classification No.	Cause of death	5 to 9 years		10 to 19 years		20 to 29 years		30 to 39 years		40 to 49 years		50 to 59 years		60 to 69 years		70 to 79 years		80 to 89 years		90 and over years	
		White		Col-ored		White		Col-ored		White		Col-ored		White		Col-ored		White		Col-ored	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
XIV. External causes—Continued																					
178	Conflagration: Suffocation by smoke in burning apartment.																				
	Caught in burning building. Jumped from burning house.	1		1						1											
179	Accidental burns (conflagration excepted).	1	4	2				1		1		1	1	2	1	1	1	3			
	Accidental mechanical suffocation.																				
180	Accidental smothered turned over on face.											1									
	Accidental smothered, cave in dirt bank.																				
181	Accidental absorption of irrespirable, irritating, or poisonous gas.																				
	Inhalation of illuminating gas.					1	1	5	1	2	2	1			1		2	2			
182	Carbon monoxide poison.							1													
	Ether narcosis.					1		1													
183	Accidental drowning.	2				6	1	2	3	1					1						
	Accidental traumatism by fire-arms.					3	1		1												
184	Accidental traumatism by cutting or piercing instruments.																				
	Stuck pitchfork in leg.																				
185	Swallowed olive fork.																				
	Accidental traumatism by fall.	1	1	2	4	3	3	3	1	1	2			1	1	2	1	2	16	1	3





TABLE 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1928, inclusive

## WHITE MALES

Year	All ages			5 years and over			20 years and over			40 years and over		
	Deaths	Average age	Deaths	Average age	Percent- age to all deaths	Deaths	Average age	Percent- age to all deaths	Deaths	Average age	Percent- age to all deaths	
1901-1905 <sup>1</sup>	1,875	Yr. mo. d. 41 8 7	1,487	Yr. mo. d. 52 3 24	79.31	1,398	Yr. mo. d. 54 9 29	74.56	1,057	Yr. mo. d. 62 9 9	56.37	
1906-1910	2,021	43 11 17	1,633	54 3 1	80.80	1,518	56 6 20	76.58	1,217	63 7 6	60.61	
1911-1915	2,229	47 7 8	1,725	55 10 13	85.01	1,650	58 0 12	81.82	1,342	63 11 27	66.14	
1916-1920	2,439	45 9 20	2,127	52 11 22	86.50	2,001	55 5 9	81.37	1,465	63 8 12	59.58	
1921-1925 <sup>1</sup>	2,202	47 2 18	1,890	52 11 3	85.79	1,800	58 1 4	81.71	1,463	64 10 11	66.35	
1926	2,435	50 10 21	2,130	58 0 26	87.47	2,054	59 9 18	84.35	1,767	64 5 3	72.57	
1927	2,255	52 0 13	2,042	57 4 22	90.55	1,959	59 3 18	86.87	1,650	64 8 3	73.17	
1928	2,418	50 5 19	2,182	55 10 10	90.24	2,073	58 1 15	85.73	1,751	63 0 20	72.41	

## WHITE FEMALES

	Yr. mo. d.			Yr. mo. d.			Yr. mo. d.			Yr. mo. d.					
1901-1905 <sup>1</sup>	1,519	43	5 16	1,221	52	3 14	80.38	1,144	56	6 0	75.31	867	64	11 6	57.08
1906-1910	1,605	45	5 27	1,308	55	7 22	81.47	1,209	58	4 18	76.56	981	65	3 6	61.04
1911-1915	1,686	49	7 10	1,405	57	5 19	85.88	1,337	59	11 11	81.72	1,133	66	7 1	69.25
1916-1920	2,053	48	11 2	1,789	56	0 11	87.14	1,688	58	5 27	82.22	1,295	66	5 2	63.08
1921-1925	1,979	53	2 6	1,735	60	6 28	87.66	1,663	62	5 21	84.13	1,414	68	5 2	71.47
1926	2,163	54	7 2	1,912	61	7 23	88.40	1,863	63	8 8	84.88	1,621	68	0 27	74.94
1927	2,065	55	3 11	1,879	60	8 5	91.00	1,817	62	3 28	88.00	1,587	67	0 8	76.85
1928	2,062	56	5 16	1,903	61	1 11	92.20	1,839	62	9 20	89.18	1,594	67	9 9	77.30

## COLORED MALES

	Yr. mo. d.			Yr. mo. d.			Yr. mo. d.			Yr. mo. d.									
1901-1905 1	1,332	28	2	28	851	43	1	21	63.89	761	46	6	15	57.88	475	57	8	2	35.56
1906-1910 1	1,375	30	7	22	957	43	8	11	69.61	869	46	9	17	63.21	525	57	8	4	39.19
1911-1915 1	1,280	34	4	14	1,281	45	0	18	76.11	910	47	5	28	70.60	579	57	2	20	44.92
1916-1920 1	1,280	35	5	22	1,069	44	9	25	78.83	925	47	6	9	72.15	584	57	5	24	45.63
1921-1925 1	1,190	36	5	13	1,935	46	2	17	78.52	863	48	10	26	72.48	591	57	5	12	49.70
1926	1,429	38	0	26	1,160	46	8	20	81.18	1,102	48	5	23	77.12	756	56	8	18	52.90
1927	1,325	39	5	3	1,090	47	9	9	82.26	1,027	49	9	23	77.51	722	57	8	17	50.50
1928	1,425	40	7	16	1,206	47	10	14	84.63	1,147	49	7	15	80.49	837	56	7	17	58.73

<sup>1</sup> Annual average for 5-year period.

TABLE 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1928, inclusive—Continued

## COLORED FEMALES

Year	All ages			5 years and over			20 years and over			40 years and over		
	Deaths	Average age	Yr. mo. d.	Deaths	Average age	Percent-age to all deaths	Deaths	Average age	Percent-age to all deaths	Deaths	Average age	Percent-age to all deaths
1901-1905 <sup>1</sup>	1,315	29	4 17	898	40 11 27	68.29	764	47 1 1	58.10	471	57 8 1	35.82
1906-1910	1,304	31	0 7	930	43 1 23	71.32	814	47 3 27	62.43	496	57 6 1	38.00
1911-1915	1,234	35	1 27	965	44 7 25	78.90	865	48 3 20	70.09	556	58 8 22	45.06
1916-1920	1,527	36	10 6	1,094	44 6 24	82.37	979	48 1 24	73.78	621	58 6 22	46.80
1921-1925	1,231	38	10 15	1,030	46 4 26	83.30	948	49 1 26	76.78	656	57 11 3	53.13
1926	1,321	39	9 20	1,150	46 11 18	84.50	1,072	49 3 23	78.77	735	58 5 27	54.00
1927	1,342	40	8 3	1,171	47 4 10	87.26	1,087	48 10 10	81.00	738	57 9 6	55.74
1928	1,334	39	8 0	1,143	46 1 25	85.68	1,050	48 11 13	78.71	719	58 1 3	53.90

<sup>1</sup> Annual average for 5-year period.

TABLE 4.—*Decedents (stillbirths excluded) in the District of Columbia under 1 year of age, by race and age, during the calendar year 1928*

## SUMMARY

Age	Deaths			Percentage under 1 year		
	White	Colored	All	White	Colored	All
Under 1 day.....	107	57	164	38.08	19.0	28.22
1 day to 1 week.....	52	48	100	18.50	16.0	17.21
1 week to 1 month.....	30	25	55	10.68	8.34	9.46
1 to 2 months.....	15	25	40	5.34	8.34	6.89
2 to 3 months.....	11	15	26	3.91	5.00	4.48
3 to 4 months.....	21	28	49	7.48	9.34	8.43
4 to 5 months.....	7	16	23	2.49	5.33	3.96
5 to 6 months.....	7	26	33	2.49	8.66	5.68
6 to 7 months.....	7	15	22	2.49	5.00	3.79
7 to 8 months.....	5	12	17	1.78	4.00	2.93
8 to 9 months.....	8	10	18	2.85	3.33	3.10
9 to 10 months.....	6	9	15	2.13	3.00	2.58
10 to 11 months.....	5	7	12	1.78	2.33	2.07
11 to 12 months.....	0	7	7	0.00	2.33	1.20
Total.....	281	300	581	100.00	100.00	100.00

TABLE 9.—*Estimated population, deaths (stillbirths excluded), and death rates in the District of Columbia, by race and calendar years, from 1901 to 1928*

Year	Population			Deaths			Death rates		
	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	217,606	93,719	311,325	3,395	2,647	6,042	15.60	28.20	19.41
1906-1910 <sup>1</sup> .....	240,244	96,696	336,940	3,626	2,678	6,304	15.09	27.69	18.71
1911-1915 <sup>1</sup> .....	255,162	98,281	353,443	3,665	2,523	6,188	14.35	25.63	17.49
1916-1920 <sup>1</sup> .....	307,076	106,194	413,270	4,512	2,608	7,120	14.76	24.70	17.33
1921-1925 <sup>1</sup> .....	358,014	115,758	473,772	4,182	2,425	6,607	11.69	20.91	13.94
1926.....	394,300	133,700	528,000	4,598	2,790	7,388	11.66	20.87	13.99
1927.....	403,800	136,200	540,000	4,320	2,667	6,987	10.70	19.58	12.94
1928.....	424,400	127,600	552,000	4,480	2,759	7,239	10.55	21.62	13.11

<sup>1</sup> Annual average for 5-year period.TABLE 10.—*Summary of deaths (stillbirths excluded) in the District of Columbia, of children under 1 year of age, by sex and color, and by years*

Calendar year	White		Colored		Grand total		
	Male	Female	Male	Female	White	Colored	Total
1901-1905 <sup>1</sup> .....	297	218	353	297	515	560	1,165
1906-1910 <sup>1</sup> .....	297	225	319	275	522	592	1,114
1911-1915 <sup>1</sup> .....	239	172	231	193	411	424	835
1916-1920 <sup>1</sup> .....	242	187	189	164	429	353	782
1921-1925 <sup>1</sup> .....	242	182	193	154	424	347	771
1926.....	238	173	192	158	411	350	761
1927.....	163	138	179	128	301	307	608
1928.....	177	104	163	137	281	300	581

<sup>1</sup> Annual average for 5-year period.TABLE 11.—*Births and deaths (stillbirths excluded) in the District of Columbia, by race, under 1 year of age and from 1 to 4 years, inclusive*

Year	White			Colored			Total		
	Births	Deaths under 1 year	Deaths 1 to 4 years	Births	Deaths under 1 year	Deaths 1 to 4 years	Births	Deaths under 1 year	Deaths 1 to 4 years
1901-1905 <sup>1</sup> .....	3,420	519	168	1,980	650	246	5,409	1,169	414
1906-1910 <sup>1</sup> .....	4,632	522	163	2,268	592	200	6,900	1,114	363
1911-1915 <sup>1</sup> .....	4,794	411	123	2,234	424	154	7,028	835	277
1916-1920 <sup>1</sup> .....	5,746	429	167	2,279	353	151	8,025	782	318
1921-1925 <sup>1</sup> .....	6,440	424	133	2,701	346	133	9,142	771	246
1926.....	6,159	411	145	2,845	350	130	9,004	761	275
1927.....	6,333	302	93	2,842	306	98	9,175	608	191
1928.....	6,201	281	114	2,793	300	111	8,994	581	225

<sup>1</sup> Annual average for 5-year period.

TABLE 12.—Deaths (stillbirths excepted) of infants under 1 day, and from 1 day to 1 week old, in the District of Columbia, with corresponding death rates based on registered births, during the years mentioned below

Year	Registered births			Deaths under 1 day			Deaths rates under 1 day			Deaths 1 to 7 days			Death rates 1 to 7 days		
	White	Colored	All	White	Colored	All	White	Colored	All	White	Colored	All	White	Colored	All
1901-1905 <sup>1</sup>	3,429	1,980	5,409	70	54	124	20.4	27.3	23.0	76	82	158	22.2	41.4	29.2
1906-1910 <sup>1</sup>	4,632	2,268	6,900	78	53	131	16.8	23.4	18.9	88	69	157	19.0	30.4	22.8
1911-1915 <sup>1</sup>	4,729	2,234	7,028	81	51	132	16.9	22.8	18.7	70	62	132	14.6	27.8	18.3
1916-1920 <sup>1</sup>	5,746	2,279	8,025	92	47	139	16.0	20.6	17.3	81	62	143	11.1	27.2	17.8
1921-1925 <sup>1</sup>	6,441	2,700	9,141	112	61	173	17.4	18.4	18.9	89	58	147	13.9	21.4	16.1
1926	6,159	2,845	9,004	121	61	182	19.6	21.4	20.2	67	54	121	10.9	19.0	13.4
1927	6,333	2,842	9,175	109	53	162	17.2	18.6	17.6	55	44	99	8.7	15.5	10.8
1928	6,201	2,793	8,994	107	57	164	17.3	20.4	18.2	52	48	100	8.4	17.2	11.1

<sup>1</sup> Annual average for 5-year period.

TABLE 14.—Number of deaths and relative mortality of certain diseases specified, contagious and otherwise, for years mentioned below

Year	1. Aneurysm						2. Angina pectoris						3. Apoplexy					
	Deaths			Death rates per 100,000 population			Deaths			Death rates per 100,000 population			Deaths			Death rates per 100,000 population		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	4	3	7	1.8	3.2	2.2	18	4	22	8.3	4.3	7.1	177	91	268	81.3	97.1	86.8
1906-1910 <sup>1</sup> .....	6	7	13	2.5	7.2	3.8	15	4	19	6.2	4.1	5.6	216	111	327	90.0	114.8	97.8
1911-1915 <sup>1</sup> .....	7	8	15	2.7	8.0	4.2	20	5	25	7.8	5.1	7.1	273	140	413	106.9	142.2	116.7
1916-1920 <sup>1</sup> .....	7	12	19	2.3	11.3	4.6	28	28	32	9.1	3.7	7.9	338	153	491	110.1	144.1	118.8
1921-1925 <sup>1</sup> .....	12	8	20	3.3	7.1	4.2	52	3	55	14.5	2.6	11.5	348	156	504	97.3	134.9	106.5
1926.....	8	11	19	2.0	8.2	3.7	51	2	53	12.9	1.5	10.0	357	159	516	90.5	118.9	97.7
1927.....	5	14	19	1.2	10.3	3.5	66	5	71	16.3	3.7	13.1	306	165	471	75.8	121.1	87.2
1928.....	11	17	28	2.6	13.3	5.0	91	9	100	21.4	7.1	18.1	331	182	513	78.0	142.6	93.0
4. Arteriosclerosis						5. Bright's disease						6. Cirrhosis of liver						
1901-1905 <sup>1</sup> .....	29	6	35	13.3	6.4	11.2	233	127	360	107.1	135.5	115.6	27	7	34	12.4	7.5	10.9
1906-1910 <sup>1</sup> .....	71	13	84	29.5	13.4	24.9	283	159	442	117.8	164.5	131.2	33	10	43	13.7	10.3	12.8
1911-1915 <sup>1</sup> .....	98	22	120	38.4	22.3	33.9	347	197	544	135.8	200.1	153.7	34	8	42	13.3	8.0	11.9
1916-1920 <sup>1</sup> .....	152	24	176	49.4	22.6	42.6	345	204	549	112.3	319.2	132.8	24	5	29	7.8	4.7	7.0
1921-1925 <sup>1</sup> .....	150	44	194	41.9	38.3	41.0	353	184	537	98.6	158.6	113.3	17	7	24	4.6	6.5	5.1
1926.....	127	42	169	32.2	31.4	32.0	438	295	733	110.0	220.6	139.0	24	12	36	6.1	8.9	6.8
1927.....	87	43	130	21.5	31.6	24.1	524	311	835	129.8	228.3	154.6	28	6	34	6.9	4.4	6.3
1928.....	73	41	114	17.2	32.1	20.6	465	285	750	109.6	223.3	135.9	22	11	33	5.2	8.6	6.0
7. Diabetes						8. Diarrhea and enteritis (under 2 years)						9. Diarrhea and enteritis (2 years and over)						
1901-1905 <sup>1</sup> .....	27	4	31	12.4	4.3	9.9	126	197	323	57.9	210.2	103.8	56	26	82	25.7	27.7	26.3
1906-1910 <sup>1</sup> .....	37	4	41	15.4	4.1	12.2	128	177	305	53.3	183.1	90.5	50	22	72	20.8	22.7	21.4
1911-1915 <sup>1</sup> .....	50	8	58	19.5	8.0	16.3	81	111	192	31.7	112.7	54.2	43	20	63	16.8	20.3	17.8
1916-1920 <sup>1</sup> .....	50	16	66	16.3	15.1	15.9	88	91	179	29.0	85.7	43.3	42	26	68	13.7	24.5	16.5
1921-1925 <sup>1</sup> .....	53	23	76	14.6	20.1	16.1	72	57	129	19.9	49.4	27.1	32	21	53	8.9	18.4	11.2
1926.....	68	37	105	17.2	27.7	19.9	63	65	128	16.0	48.6	24.2	31	33	64	7.9	24.7	12.1
1927.....	78	31	109	19.3	22.8	20.2	25	33	58	6.2	24.2	10.7	12	28	40	3.0	20.6	7.4
1928.....	92	41	133	21.5	32.1	24.1	32	38	70	7.5	29.8	12.7	24	18	42	5.6	14.1	7.6

<sup>1</sup> Annual average for 5-year period.



TABLE 14.—Number of deaths and relative mortality of certain diseases specified, contagious and otherwise, for years mentioned below—Continued

Year	10. Diseases of the heart (international classifica- tion No. 90)						11. Dysentery						12. Epilepsy					
	Deaths			Death rates per 100,000 population			Deaths			Death rates per 100,000 population			Deaths			Death rates per 100,000 population		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	277	216	493	127.3	230.5	158.4	13	10	23	6.0	10.7	7.4	14	10	24	6.4	10.7	7.7
1906-1910 <sup>1</sup> .....	332	236	568	138.3	244.1	168.6	7	9	16	2.9	9.3	4.7	13	9	22	5.4	9.3	6.5
1911-1915 <sup>1</sup> .....	461	277	738	180.5	281.3	208.5	4	3	7	1.6	3.0	2.0	10	11	21	3.9	11.1	5.9
1916-1920 <sup>1</sup> .....	491	236	727	159.8	222.2	175.9	3	4	7	.9	3.8	1.7	9	8	17	2.9	7.5	4.1
1921-1925 <sup>1</sup> .....	542	272	814	150.8	234.0	171.1	2	4	6	.7	3.1	1.3	7	5	12	2.0	3.9	2.6
1926.....	733	409	1,142	185.8	305.8	216.3	2	2	4	.5	1.4	.8	4	6	10	1.0	4.5	1.9
1927.....	743	396	1,139	184.0	290.7	210.9	1	0	1	.2	0	.2	6	7	13	1.5	5.1	5.4
1928.....	830	430	1,260	195.5	337.0	228.2	0	0	0	0	0	0	4	7	11	1.0	5.5	2.1
13. Gastritis						14. Influenza—grippe						15. Insanity						
1901-1905 <sup>1</sup> .....	44	24	68	20.2	25.6	21.8	51	38	89	23.4	40.5	28.6	27	8	35	12.4	8.5	11.2
1906-1910 <sup>1</sup> .....	41	32	73	17.1	33.1	21.7	52	44	96	21.6	45.5	28.5	25	11	36	10.4	11.4	10.7
1911-1915 <sup>1</sup> .....	25	29	54	19.8	29.5	15.3	40	31	71	15.7	31.5	20.1	41	22	63	16.1	22.3	17.8
1916-1920 <sup>1</sup> .....	14	17	31	4.6	16.0	7.5	437	145	582	142.3	136.5	140.8	51	25	76	16.6	23.5	18.4
1921-1925 <sup>1</sup> .....	15	16	31	4.2	13.6	6.5	41	25	66	11.3	21.6	13.8	38	23	61	10.3	20.3	12.9
1926.....	7	15	22	1.8	11.2	4.2	86	45	131	21.8	33.7	24.8	32	40	72	8.1	29.9	13.8
1927.....	10	18	28	2.5	13.2	5.2	57	36	93	14.1	26.4	17.2	16	30	46	4.0	22.0	8.5
1928.....	10	14	24	2.4	11.0	4.4	53	31	84	12.5	24.3	15.2	15	21	36	3.5	16.5	6.5
16. Malarial fevers						17. Malignant growths						18. Pneumonia, all forms						
1901-1905 <sup>1</sup> .....	12	11	23	5.5	11.7	7.4	166	52	218	76.3	55.5	70.0	219	288	507	100.6	307.3	162.9
1906-1910 <sup>1</sup> .....	5	6	11	2.1	6.2	3.2	212	64	276	88.3	66.2	81.9	246	304	550	102.5	314.0	163.2
1911-1915 <sup>1</sup> .....	2	1	3	.8	1.0	.8	259	80	339	101.4	81.2	95.8	262	285	547	102.6	289.5	154.6
1916-1920 <sup>1</sup> .....	1	1	2	.3	.9	.5	325	89	414	105.8	83.8	100.1	427	381	808	139.1	1358.8	195.5
1921-1925 <sup>1</sup> .....	1	1	2	.3	.9	.5	398	112	510	111.2	97.0	107.6	371	345	716	103.5	298.1	151.1
1926.....	0	0	0	0	0	0	430	146	576	109.1	109.2	109.1	459	348	807	116.4	260.3	152.8
1927.....	0	0	0	0	0	0	480	125	605	118.9	91.8	112.0	294	283	577	72.8	207.7	106.9
1928.....	0	1	1	0	.8	.2	484	124	608	114.0	97.2	110.1	335	303	638	78.9	237.5	115.6
19. Rheumatism, acute and chronic						20. Rabies						21. Softening of the brain						
1901-1905 <sup>1</sup> .....	25	10	35	11.5	10.6	11.2	0	0	0	0	0	0	12	6	18	5.5	6.4	5.7
1906-1910 <sup>1</sup> .....	20	11	31	8.3	11.4	9.2	0	0	0	0	0	0	15	6	21	8.7	6.2	6.2
1911-1915 <sup>1</sup> .....	15	9	24	5.9	9.1	6.8	0	0	0	0	0	0	6	2	8	2.3	2.0	2.3
1916-1920 <sup>1</sup> .....	15	4	19	4.9	3.8	4.6	0	0	0	0	0	0	2	1	3	.6	.9	.7
1921-1925 <sup>1</sup> .....	12	5	17	3.3	4.6	3.6	0	0	0	0	0	0	2	1	3	.6	.9	.5
1926.....	3	2	5	.9	1.4	1.0	0	0	0	0	0	0	1	0	1	.3	.0	.2
1927.....	14	8	22	3.5	6.0	4.1	0	0	0	0	0	0	1	0	1	.3	.0	.2
1928.....	17	9	26	4.0	7.0	4.7	0	0	0	0	0	0	2	2	4	.5	1.6	.7
22. Suicides						23. Steam railroad accidents						24. Street railroad accidents						
1901-1905 <sup>1</sup> .....	46	5	51	21.1	5.3	16.4	18	6	24	8.3	6.4	7.7	6	2	8	2.8	2.1	2.6
1906-1910 <sup>1</sup> .....	62	9	71	25.8	9.3	21.1	18	7	25	7.5	7.2	7.4	11	4	15	4.6	4.1	4.4
1911-1915 <sup>1</sup> .....	71	10	81	27.8	10.2	22.9	7	1	8	2.7	1.0	2.3	12	3	15	4.7	3.0	4.2
1916-1920 <sup>1</sup> .....	60	8	68	19.5	7.5	16.4	8	2	10	2.6	1.9	2.4	12	4	16	3.9	3.8	3.9
1921-1925 <sup>1</sup> .....	91	5	96	25.6	4.4	20.4	4	1	5	1.2	.3	1.0	9	2	11	2.4	2.2	2.3
1926.....	80	6	86	20.9	4.5	16.3	5	1	6	1.3	.8	1.2	8	2	10	2.0	1.5	1.9
1927.....	94	15	109	23.3	11.0	20.2	4	3	7	1.0	2.2	1.3	9	1	10	2.2	.7	1.9
1928.....	104	8	112	24.5	6.3	20.3	6	3	9	1.4	2.3	1.6	8	4	12	1.9	3.1	3.2

<sup>1</sup> Annual average for 5-year period.

TABLE 15.—Deaths in the District of Columbia from cancer and other malignant tumors, by race and sex, for years mentioned below

Calendar year	White		Colored		Total		
	Male	Female	Male	Female	Male	Female	All
1901-1905 <sup>1</sup> .....	61	105	14	39	75	144	219
1906-1910 <sup>1</sup> .....	88	124	17	47	105	171	276
1911-1915 <sup>1</sup> .....	104	156	26	53	130	209	339
1916-1920 <sup>1</sup> .....	128	195	29	60	157	255	412
1921-1925 <sup>1</sup> .....	173	225	40	72	213	297	510
1926.....	189	241	53	93	242	334	576
1927.....	192	288	46	79	238	367	605
1928.....	218	266	58	66	276	332	608

<sup>1</sup> Annual average for 5-year period.

TABLE 17.—Anterior poliomyelitis, acute—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1912 to 1928, inclusive

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1912-1915 <sup>1</sup> .....	0	2	2	0	2.0	0.6	5	2	7	2.0	2.0	2.0	0	100.0	28.6
1916-1920 <sup>1</sup> .....	2	0	2	0.6	0	.6	10	2	12	3.2	1.9	2.9	20.0	0	16.6
1921-1925 <sup>1</sup> .....	2	1	3	.6	1.0	.5	20	1	21	5.7	1.2	4.6	9.1	6.7	9.1
1926.....	2	3	5	.5	2.2	1.0	4	3	7	1.0	2.2	1.3	50.0	100.0	71.4
1927.....	6	0	6	1.5	0	1.1	10	4	14	2.5	2.9	2.6	60.0	0	42.8
1928.....	5	0	5	1.2	0	1.0	35	1	36	8.2	.8	6.5	14.3	0	13.9

<sup>1</sup> Annual average for 5-year period.

TABLE 17A.—Acute anterior poliomyelitis—Reported cases and deaths, by race and by months, during the calendar year 1928

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	0	0	0	0	0	0	August.....	7	1	1	0	8	1
February.....	0	0	0	0	0	0	September.....	12	1	0	0	12	1
March.....	2	0	0	0	2	0	October.....	7	0	0	0	7	0
April.....	0	0	0	0	0	0	November.....	4	0	0	0	4	0
May.....	3	2	0	0	3	2	December.....	0	0	0	0	0	0
June.....	0	0	0	0	0	0	Total.....	35	5	1	0	36	5
July.....	0	1	0	0	0	1							

TABLE 17B.—*Acute anterior poliomyelitis—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	1	0	0	0	0	0	1	0	0
1 to 4 years.....	14	2	14.3	1	0	0	15	2	13.3
5 to 9 years.....	11	1	9.1	0	0	0	11	1	9.1
10 to 19 years.....	7	1	14.3	0	0	0	7	1	14.3
20 to 29 years.....	1	0	0	0	0	0	1	0	0
30 to 39 years.....	0	0	0	0	0	0	0	0	0
40 to 49 years.....	0	0	0	0	0	0	0	0	0
50 to 59 years.....	0	0	0	0	0	0	0	0	0
60 to 69 years.....	0	0	0	0	0	0	0	0	0
70 years and over.....	1	1	100.0	0	0	0	1	1	100.0
Total.....	35	5	14.3	1	0	0	36	5	13.9

TABLE 18.—*Chicken pox—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1907 to 1928, inclusive*

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1907-1910 <sup>1</sup> .....	0	0	0	0	0	0	478	103	581	196.8	106.3	171.0	0	0	0
1911-1915 <sup>1</sup> .....	0	0	0	0	0	0	726	174	900	284.5	177.0	254.6	0	0	0
1916-1920 <sup>1</sup> .....	0	0	0	0	0	0	943	175	1,118	307.1	164.8	270.5	0	0	0
1921-1925 <sup>1</sup> .....	0	0	0	0	0	0	1,037	160	1,197	293.6	139.6	255.8	0	0	0
1926.....	0	0	0	0	0	0	795	240	1,035	201.6	179.5	196.0	0	0	0
1927.....	0	0	0	0	0	0	1,241	246	1,487	307.3	180.6	275.4	0	0	0
1928.....	0	0	0	0	0	0	561	141	702	132.2	110.5	127.1	0	0	0

<sup>1</sup> Annual average for 5-year period.TABLE 18A.—*Chicken pox—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	129	0	8	0	137	0	August.....	2	0	1	0	3	0
February.....	83	0	14	0	97	0	September.....	1	0	0	0	1	0
March.....	93	0	22	0	115	0	October.....	12	0	2	0	14	0
April.....	41	0	14	0	55	0	November.....	36	0	26	0	62	0
May.....	40	0	15	0	55	0	December.....	83	0	34	0	117	0
June.....	34	0	4	0	38	0	Total.....	561	0	141	0	702	0
July.....	7	0	1	0	8	0							

TABLE 18B.—*Chicken pox—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of death to cases
Under 1 year.....	40	0	0	2	0	0	42	0	0
1 to 4 years.....	122	0	0	33	0	0	155	0	0
5 to 9 years.....	315	0	0	76	0	0	391	0	0
10 to 19 years.....	49	0	0	17	0	0	66	0	0
20 to 29 years.....	16	0	0	11	0	0	27	0	0
30 to 39 years.....	12	0	0	2	0	0	14	0	0
40 to 49 years.....	5	0	0	0	0	0	5	0	0
50 to 59 years.....	1	0	0	0	0	0	1	0	0
60 to 69 years.....	1	0	0	0	0	0	1	0	0
70 years and over.....	0	0	0	0	0	0	0	0	0
Total.....	561	0	0	141	0	0	702	0	0

TABLE 19.—*Diphtheria—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1928, inclusive*

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	37	17	54	17.0	18.0	17.0	391	61	452	166.2	61.2	133.5	6.1	13.1	7.1
1906-1910 <sup>1</sup> .....	24	8	32	10.0	8.0	10.0	402	105	507	157.5	106.8	140.6	4.8	3.8	4.7
1911-1915 <sup>1</sup> .....	20	4	24	7.8	4.1	6.8	402	105	507	157.5	106.8	140.6	4.8	3.8	4.7
1916-1920 <sup>1</sup> .....	46	12	58	14.9	11.3	13.7	711	125	836	231.6	117.7	202.3	6.5	9.6	6.9
1921-1925 <sup>1</sup> .....	35	7	42	10.0	5.7	8.9	569	94	663	162.1	81.7	142.3	6.3	7.2	6.5
1926.....	23	6	29	5.8	4.5	5.5	649	291	940	164.6	217.7	178.0	3.5	2.1	3.2
1927.....	17	7	24	4.2	5.4	4.4	595	334	929	144.7	245.2	172.0	2.9	2.1	2.6
1928.....	25	20	45	5.9	15.7	8.1	908	360	1,268	213.9	282.1	229.7	2.7	5.6	3.5

<sup>1</sup> Annual average for 5-year period.TABLE 19A.—*Diphtheria—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	109	4	31	0	140	4	August.....	39	0	21	0	60	0
February.....	100	2	34	1	134	3	September.....	37	1	16	2	53	3
March.....	70	2	19	1	89	3	October.....	203	6	47	2	250	8
April.....	50	2	15	3	65	5	November.....	142	3	77	3	219	6
May.....	45	1	23	1	68	2	December.....	46	1	30	3	76	4
June.....	25	2	20	3	45	5	Total.....	908	25	360	20	1,268	45
July.....	42	1	27	1	69	2							

TABLE 19B.—*Diphtheria—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	34	0	0	21	2	9.5	55	2	3.6
1 to 4 years.....	218	17	7.8	87	9	10.3	305	26	8.5
5 to 9 years.....	380	2	.5	152	6	3.9	532	8	1.5
10 to 19 years.....	191	3	1.5	68	3	4.4	259	6	2.3
20 to 29 years.....	52	0	0	20	0	0	72	0	0
30 to 39 years.....	21	0	0	9	0	0	30	0	0
40 to 49 years.....	10	2	20.0	2	0	0	12	2	16.7
50 to 59 years.....	1	0	0	0	0	0	1	0	0
60 to 69 years.....	1	1	100.0	1	0	0	2	1	50.0
70 years and over.....	0	0	0	0	0	0	0	0	0
Total.....	908	25	2.7	360	20	5.6	1,268	45	3.5

TABLE 20.—*Measles—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1928, inclusive*

Year	Deaths			Death rates per 100,000 popu- lation			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	10	5	15	5.0	5.0	5.0	---	---	---	---	---	---	---	---	---
1906-1910.....	10	5	15	4.0	5.0	4.0	---	---	---	---	---	---	---	---	---
1911-1915.....	8	3	11	3.1	3.1	3.1	2,188	549	2,737	837.5	558.6	774.4	0.4	0.5	0.4
1916-1920 <sup>1</sup> .....	12	2	14	3.9	1.9	3.4	2,486	357	4,843	809.5	336.2	687.1	.5	.6	.5
1921-1925 <sup>1</sup> .....	8	2	10	2.2	2.2	2.2	2,297	400	2,697	668.2	352.1	589.8	.2	.8	.4
1926.....	26	8	34	6.6	6.0	6.4	6,102	655	6,757	1,547.6	489.9	1,279.3	.4	1.2	.5
1927.....	0	0	0	0	0	0	145	19	164	35.9	13.9	30.4	0	0	0
1928.....	11	6	17	2.6	4.7	3.1	2,949	637	3,586	694.9	499.2	649.6	.4	.9	.5

<sup>1</sup> Annual average for 5-year period.TABLE 20A.—*Measles—Reported cases and deaths, by race and by month, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	34	0	4	0	38	0	August.....	24	1	5	1	29	2
February.....	240	0	9	0	249	0	September.....	5	0	3	1	8	1
March.....	688	1	56	0	744	1	October.....	10	0	1	0	11	0
April.....	639	0	136	1	775	1	November.....	7	0	3	0	10	0
May.....	702	6	248	3	950	9	December.....	1	0	2	0	3	0
June.....	474	3	137	0	611	3							
July.....	125	0	33	0	158	0	Total.....	2,949	11	637	6	3,586	17

TABLE 20B.—*Measles—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year .....	41	0	0	21	3	14.3	62	3	4.8
1 to 4 years .....	710	8	1.1	177	1	0.6	887	9	1.0
5 to 9 years .....	1,557	3	.2	309	0	0	1,866	3	0.2
10 to 19 years .....	447	0	0	75	0	0	522	0	0
20 to 29 years .....	137	0	0	43	0	0	180	0	0
30 to 39 years .....	38	0	0	8	1	12.5	46	1	0.2
40 to 49 years .....	14	0	0	3	0	0	17	0	0
50 to 59 years .....	4	0	0	1	1	100.0	5	1	20.0
60 to 69 years .....	1	0	0	0	0	0	1	0	0
70 years and over .....	0	0	0	0	0	0	0	0	0
Total .....	2,949	11	0.4	637	6	0.9	3,586	17	0.5

TABLE 21.—*Meningitis, epidemic cerebrospinal—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race from 1901 to 1928, inclusive*

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	2	4	10	2.8	4.3	3.2	---	---	---	---	---	---	---	---	---
1906-1910 <sup>1</sup> .....	9	7	16	3.7	7.2	4.7	---	---	---	---	---	---	---	---	---
1911-1915 <sup>1</sup> .....	3	1	4	1.2	1.0	1.1	4	2	6	1.6	2.0	1.7	75.0	50.0	66.6
1916-1920 <sup>1</sup> .....	8	4	12	2.6	3.8	2.9	26	9	35	8.4	8.4	8.4	30.8	44.4	34.3
1921-1925 <sup>1</sup> .....	1	1	2	.3	1.0	.5	3	2	5	.9	1.4	1.2	26.5	26.6	40.0
1926 .....	4	0	4	1.0	0	.8	6	0	6	1.5	0	1.1	66.7	0	66.7
1927 .....	2	1	3	.5	.7	.6	3	1	4	.7	.7	.7	66.7	100.0	75.0
1928 .....	3	2	5	.7	1.6	1.0	6	2	8	1.4	1.6	1.4	50.0	100.0	62.5

<sup>1</sup> Annual average for 5-year period.TABLE 21A.—*Meningococcus meningitis—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January .....	2	1	0	0	2	1	August .....	0	1	0	0	0	1
February .....	0	0	0	0	0	0	September .....	0	0	0	0	0	0
March .....	1	0	0	0	1	0	October .....	0	0	0	0	0	0
April .....	2	0	0	0	2	0	November .....	0	0	0	0	0	0
May .....	1	1	0	0	1	1	December .....	0	0	2	2	2	2
June .....	0	0	0	0	0	0	Total .....	6	3	2	2	8	5
July .....	0	0	0	0	0	0							

TABLE 21B.—*Meningococcus meningitis*—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	1	0	0	0	0	0	1	0	0
1 to 4 years.....	2	1	50.0	1	1	100.0	3	2	66.6
5 to 9 years.....	1	1	100.0	0	0	0	1	1	100.0
10 to 19 years.....	1	0	0	0	0	0	1	0	0
20 to 29 years.....	0	0	0	1	1	100.0	1	1	100.0
30 to 39 years.....	0	0	0	0	0	0	0	0	0
40 to 49 years.....	1	1	100.0	0	0	0	1	1	100.0
50 to 59 years.....	0	0	0	0	0	0	0	0	0
60 to 69 years.....	0	0	0	0	0	0	0	0	0
70 years and over.....	0	0	0	0	0	0	0	0	0
Total.....	6	3	50.0	2	2	100.0	8	5	62.5

TABLE 22.—*Pellagra*—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race from 1913 to 1928, inclusive

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1913-1915 <sup>1</sup> .....	2	9	11	0.8	9.2	3.1	4	12	16	1.6	12.2	4.5	50.0	75.0	68.8
1916-1920 <sup>1</sup> .....	5	4	9	1.6	3.7	2.2	7	6	13	2.3	5.7	3.1	71.4	66.7	69.2
1921-1925 <sup>1</sup> .....	1	1	2	.2	.6	.3	1	1	2	.3	.4	100.0	100.0	100.0	100.0
1926.....	1	7	8	.3	5.2	1.5	4	9	13	1.0	6.7	2.5	25.0	77.7	61.5
1927.....	1	4	5	.2	2.9	.9	1	5	6	.2	3.7	1.1	100.0	80.0	83.3
1928.....	0	2	2	0	1.6	.4	0	2	2	0	1.6	.4	0	100.0	100.0

<sup>1</sup> Annual average for 5-year period.TABLE 22A.—*Pellagra*—Reported cases and deaths, by race and by months, during the calendar year 1928

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	0	0	0	0	0	0	August.....	0	0	0	0	0	0
February.....	0	0	0	0	0	0	September.....	0	0	0	0	0	0
March.....	0	0	0	0	0	0	October.....	0	0	0	0	0	0
April.....	0	0	0	0	0	0	November.....	0	0	1	1	1	1
May.....	0	0	0	0	0	0	December.....	0	0	0	0	0	0
June.....	0	0	0	0	0	0	Total.....	0	0	2	2	2	2
July.....	0	0	1	1	1	1							

TABLE 22B.—*Pellagra—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year .....	0	0	0	0	0	0	0	0	0
1 to 4 years .....	0	0	0	0	0	0	0	0	0
5 to 9 years .....	0	0	0	0	0	0	0	0	0
10 to 19 years .....	0	0	0	0	0	0	0	0	0
20 to 29 years .....	0	0	0	1	1	100	1	1	100
30 to 39 years .....	0	0	0	1	1	100	1	1	100
40 to 49 years .....	0	0	0	0	0	0	0	0	0
50 to 59 years .....	0	0	0	0	0	0	0	0	0
60 to 69 years .....	0	0	0	0	0	0	0	0	0
70 years and over .....	0	0	0	0	0	0	0	0	0
Total .....	0	0	0	2	2	100	2	2	100

TABLE 23.—*Scarlet fever—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1928, inclusive*

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> ..	7	1	8	3.0	1.0	3.0	480	46	526	199.5	48.0	154.9	1.9	4.3	2.1
1906-1910 <sup>1</sup> ..	9	2	11	4.0	2.0	3.0	480	46	526	157.5	36.6	123.9	1.5	1.1	1.4
1911-1915 <sup>1</sup> ..	6	0	6	2.3	.4	1.7	402	36	438	157.5	36.6	123.9	1.5	1.1	1.4
1916-1920 <sup>1</sup> ..	8	0	8	2.6	.3	1.9	621	66	687	202.2	62.2	166.2	1.3	0	1.2
1921-1925 <sup>1</sup> ..	6	1	7	1.7	.8	1.5	836	84	920	234.2	74.7	194.9	.7	1.2	.8
1926 .....	5	2	7	1.3	1.5	1.3	782	73	855	198.3	54.6	161.9	.6	2.7	.8
1927 .....	4	4	8	1.0	2.9	1.5	837	107	944	207.3	78.6	174.8	.5	3.7	.8
1928 .....	6	1	7	1.4	.8	1.3	1,192	97	1,289	280.9	76.0	233.5	.5	1.0	.5

<sup>1</sup> Annual average for 5-year period.TABLE 23A.—*Scarlet fever—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January .....	146	0	7	0	153	0	August .....	5	0	4	0	9	0
February .....	176	1	17	0	193	1	September .....	15	0	3	0	18	0
March .....	209	0	17	1	226	1	October .....	44	1	5	0	49	1
April .....	145	2	12	0	157	2	November .....	51	0	6	0	57	0
May .....	191	0	11	0	202	0	December .....	53	0	4	0	57	0
June .....	119	0	7	0	126	0	Total .....	1,192	6	97	1	1,289	7
July .....	38	2	4	0	42	2							



TABLE 23B.—*Scarlet fever—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	3	0	0	1	0	0	4	0	0
1 to 4 years.....	222	1	0.5	22	0	0	244	1	0.4
5 to 9 years.....	515	4	0.7	42	0	0	557	4	0.7
10 to 19 years.....	303	1	0.3	15	0	0	318	1	0.3
20 to 29 years.....	99	0	0	14	1	7.1	113	1	0.9
30 to 39 years.....	35	0	0	3	0	0	38	0	0
40 to 49 years.....	13	0	0	0	0	0	13	0	0
50 to 59 years.....	2	0	0	0	0	0	2	0	0
60 to 69 years.....	0	0	0	0	0	0	0	0	0
70 years and over.....	0	0	0	0	0	0	0	0	0
Total.....	1,192	6	0.5	97	1	1.0	1,289	7	0.5

TABLE 24.—*Smallpox—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1928, inclusive*

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	1	2	3	0.5	2.1	1.0	28	53	81	11.1	54.6	24.1	14.3	7.5	9.9
1906-1910 <sup>1</sup> .....	4	4	8	.2	.4	.2	19	51	70	7.4	51.9	19.8			
1911-1915 <sup>1</sup> .....							21	44	65	6.9	41.4	15.7	4.7	0	1.5
1916-1920 <sup>1</sup> .....	1	0	1	.3	0	.2	27	54	81	7.6	46.9	17.2	7.2	5.3	6.8
1921-1925 <sup>1</sup> .....	3	1	4	.8	.6	.8	5	11	16	1.3	8.2	3.1	0	0	0
1926.....	0	0	0	0	0	0	8	55	63	2.0	40.4	11.7	0	0	0
1927.....	0	0	0	0	0	0	10	14	24	2.4	10.9	4.3	0	0	0
1928.....	0	0	0	0	0	0									

<sup>1</sup> Annual average for 5-year period.TABLE 24A.—*Smallpox—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	0	0	0	0	0	0	August.....	0	0	0	0	0	0
February.....	0	0	0	0	0	0	September.....	0	0	0	0	0	0
March.....	10	0	3	0	13	0	October.....	0	0	0	0	0	0
April.....	0	0	6	0	6	0	November.....	0	0	0	0	0	0
May.....	0	0	4	0	4	0	December.....	0	0	0	0	0	0
June.....	0	0	1	0	1	0	Total.....	10	0	14	0	24	0
July.....	0	0	0	0	0	0							

TABLE 24B.—*Smallpox—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	0	0	0	0	0	0	0	0	0
1 to 4 years.....	0	0	0	0	0	0	0	0	0
5 to 9 years.....	0	0	0	1	0	0	1	0	0
10 to 19 years.....	0	0	0	3	0	0	3	0	0
20 to 29 years.....	3	0	0	2	0	0	5	0	0
30 to 39 years.....	1	0	0	3	0	0	4	0	0
40 to 49 years.....	5	0	0	5	0	0	10	0	0
50 to 59 years.....	0	0	0	0	0	0	0	0	0
60 to 69 years.....	1	0	0	0	0	0	1	0	0
70 years and over.....	0	0	0	0	0	0	0	0	0
Total.....	10	0	0	14	0	0	24	0	0

TABLE 25.—*Tuberculosis, reportable forms—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race from 1908 to 1928, inclusive*

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1908-1910.....	277	392	669	112.8	402.4	195.1	570	637	1,207	231.7	654.1	351.5	48.6	61.6	55.5
1911-1915 <sup>1</sup> .....	318	429	747	124.6	436.5	211.3	567	587	1,154	222.2	597.3	326.5	56.1	73.1	64.7
1916-1920 <sup>1</sup> .....	296	342	638	96.4	322.1	154.4	636	485	1,121	207.1	456.7	271.3	46.5	70.5	56.9
1921-1925 <sup>1</sup> .....	225	287	512	62.9	247.0	107.8	806	486	1,292	228.4	422.6	275.9	27.8	58.9	39.6
1926.....	244	337	581	62.2	252.0	110.0	622	551	1,173	157.7	412.1	222.1	39.2	61.0	49.5
1927.....	240	366	606	59.4	268.7	112.0	616	606	1,222	152.5	444.9	226.3	39.0	60.4	49.6
1928.....	250	327	577	58.9	256.3	104.5	583	559	1,142	137.4	438.1	206.9	42.9	58.5	50.5

<sup>1</sup> Annual average for 5-year period.TABLE 25A.—*Tuberculosis (all forms)—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	44	19	42	32	86	51	August.....	33	18	44	30	77	48
February.....	42	27	42	16	84	43	September.....	50	20	41	25	91	45
March.....	61	23	56	29	117	52	October.....	73	15	58	32	131	47
April.....	51	22	42	31	93	53	November.....	46	20	38	14	84	34
May.....	46	28	58	34	104	62	December.....	42	22	49	25	91	47
June.....	29	17	43	34	72	51	Total.....	583	250	559	327	1,142	577
July.....	66	19	46	25	112	44							

TABLE 25B.—*Tuberculosis (all forms)—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	3	3	100.0	10	10	100.0	13	13	100.0
1 to 4 years.....	11	11	100.0	18	18	100.0	29	29	100.0
5 to 9 years.....	24	3	12.5	25	5	20.0	49	8	16.3
10 to 19 years.....	57	9	15.8	75	45	60.0	132	54	40.9
20 to 29 years.....	137	41	30.0	186	105	56.4	323	146	45.2
30 to 39 years.....	150	63	42.0	120	63	52.5	270	126	46.6
40 to 49 years.....	79	41	51.9	72	47	65.3	151	88	58.3
50 to 59 years.....	74	44	59.4	37	23	62.1	111	67	60.4
60 to 69 years.....	38	28	73.7	9	6	66.7	47	34	72.3
70 years and over.....	10	7	70.0	7	5	71.4	17	12	70.6
Total.....	583	250	42.9	559	327	58.5	1,142	577	50.5

TABLE 26A.—*Pulmonary tuberculosis—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	44	18	40	31	84	49	August.....	31	14	43	26	74	40
February.....	42	24	40	12	82	36	September.....	49	17	40	20	89	37
March.....	56	20	50	25	106	45	October.....	73	11	56	30	129	41
April.....	50	18	39	27	89	45	November.....	45	17	34	12	79	29
May.....	42	24	53	30	95	54	December.....	42	22	46	22	88	44
June.....	25	15	42	30	67	45							
July.....	63	18	42	24	105	42	Total.....	562	218	525	289	1,087	507

TABLE 26B.—*Pulmonary tuberculosis—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	2	1	50.0	7	7	100.0	9	8	88.9
1 to 4 years.....	8	1	12.5	10	8	80.0	18	9	50.0
5 to 9 years.....	21	0	0	23	2	9.6	44	2	4.5
10 to 19 years.....	56	6	10.7	68	39	57.3	124	45	36.3
20 to 29 years.....	130	40	30.8	181	102	56.3	311	142	45.6
30 to 39 years.....	150	58	38.7	115	54	47.0	265	112	42.3
40 to 49 years.....	79	38	48.1	70	46	65.7	149	84	56.4
50 to 59 years.....	69	39	56.5	36	22	61.1	105	61	58.1
60 to 69 years.....	38	28	73.7	9	6	66.7	47	34	72.3
70 years and over.....	9	7	77.7	6	3	50.0	15	10	66.7
Total.....	562	218	38.8	525	289	55.0	1,087	507	46.6

TABLE 27.—*Typhoid fever—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1928, inclusive*

	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	99	64	163	45.0	68.0	52.0	660	237	897	274.3	244.9	265.9	11.0	12.6	13.0
1906-1910 <sup>1</sup> .....	73	46	119	30.0	48.0	35.0	343	137	480	134.4	139.4	135.0	9.6	19.0	12.3
1911-1915 <sup>1</sup> .....	33	26	59	12.9	26.4	16.7	161	73	234	52.4	68.7	56.6	11.2	27.4	16.2
1916-1920 <sup>1</sup> .....	18	20	38	5.9	18.8	9.2	125	26	151	35.5	22.6	32.4	14.2	27.8	17.0
1921-1925 <sup>1</sup> .....	16	8	24	4.7	6.9	5.2	68	21	89	17.3	15.7	16.8	14.7	14.3	14.6
1926.....	10	3	13	2.3	2.2	2.3	55	23	78	13.6	16.9	14.4	10.9	17.4	12.8
1927.....	6	4	10	1.5	2.9	1.9	23	23	46	5.4	18.0	8.3	26.1	39.1	32.6
1928.....	6	9	15	1.4	7.8	2.7									

<sup>1</sup> Annual average for 5-year period.TABLE 27A.—*Typhoid fever—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	0	1	2	1	2	2	August.....	4	1	3	1	7	2
February.....	0	0	1	0	1	0	September.....	5	1	3	2	8	3
March.....	0	0	2	0	2	0	October.....	5	3	6	0	11	3
April.....	1	0	0	1	1	1	November.....	1	0	4	2	5	2
May.....	2	0	1	1	3	1	December.....	2	0	1	1	3	1
June.....	1	0	0	0	1	0	Total.....	23	6	23	9	46	15
July.....	2	0	0	0	2	0							

TABLE 27B.—*Typhoid fever—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent-age of deaths to cases	Cases	Deaths	Percent-age of deaths to cases	Cases	Deaths	Percent-age of deaths to cases
Under 1 year.....	0	0	0	0	0	0	0	0	0
1 to 4 years.....	0	0	0	1	0	0	1	0	0
5 to 9 years.....	2	0	0	3	0	0	5	0	0
10 to 19 years.....	6	1	16.6	8	3	37.5	15	4	26.6
20 to 29 years.....	7	3	42.8	7	3	42.8	14	6	42.8
30 to 39 years.....	2	0	0	1	0	0	3	0	0
40 to 49 years.....	3	2	66.6	1	1	100.0	4	3	75.0
50 to 59 years.....	3	0	0	1	1	100.0	3	1	33.3
60 to 69 years.....	0	0	0	1	1	100.0	1	1	100.0
70 years and over.....	0	0	0	0	0	0	0	0	0
Total.....	23	6	26.1	23	9	39.1	46	15	32.6

TABLE 19a.—*Pharyngeal, tonsil, throat and dental abscess, cases and case-fatality, by month, 1923*

Month	Total number of cases					Case-fatality, percent					Percentage of deaths to cases				
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Pharyngeal abscess	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tonsil abscess	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Throat abscess	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dental abscess	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Deaths	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Case-fatality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Annual average for 1923—0.00 per cent.

TABLE 20.—*Whooping cough—Reported cases and deaths, by race and by month, during the calendar year 1923*

Month	White					Month	Colored				
	Cases	Deaths	Cases	Deaths	Total		Cases	Deaths	Cases	Deaths	Total
January	1	0	1	0	2	January	1	0	1	0	2
February	1	0	1	0	2	February	1	0	1	0	2
March	1	0	1	0	2	March	1	0	1	0	2
April	1	0	1	0	2	April	1	0	1	0	2
May	1	0	1	0	2	May	1	0	1	0	2
June	1	0	1	0	2	June	1	0	1	0	2
July	1	0	1	0	2	July	1	0	1	0	2
August	1	0	1	0	2	August	1	0	1	0	2
September	1	0	1	0	2	September	1	0	1	0	2
October	1	0	1	0	2	October	1	0	1	0	2
November	1	0	1	0	2	November	1	0	1	0	2
December	1	0	1	0	2	December	1	0	1	0	2
Total	12	0	12	0	24	Total	12	0	12	0	24

TABLE 21a.—*Whooping cough—Cases and deaths, with percentage of deaths to cases, by age groups, during the calendar year 1923*

Age group	Cases			Deaths			Percentage of deaths to cases		
	Cases	Deaths	Percent of deaths to cases	Cases	Deaths	Percent of deaths to cases	Cases	Deaths	Percent of deaths to cases
Under 1 year	1	0	0.0	1	0	0.0	1	0	0.0
1 to 4 years	1	0	0.0	1	0	0.0	1	0	0.0
5 to 9 years	1	0	0.0	1	0	0.0	1	0	0.0
10 to 14 years	1	0	0.0	1	0	0.0	1	0	0.0
15 to 19 years	1	0	0.0	1	0	0.0	1	0	0.0
20 to 24 years	1	0	0.0	1	0	0.0	1	0	0.0
25 to 29 years	1	0	0.0	1	0	0.0	1	0	0.0
30 to 34 years	1	0	0.0	1	0	0.0	1	0	0.0
35 to 39 years	1	0	0.0	1	0	0.0	1	0	0.0
40 to 44 years	1	0	0.0	1	0	0.0	1	0	0.0
45 to 49 years	1	0	0.0	1	0	0.0	1	0	0.0
50 to 54 years	1	0	0.0	1	0	0.0	1	0	0.0
55 to 59 years	1	0	0.0	1	0	0.0	1	0	0.0
60 to 64 years	1	0	0.0	1	0	0.0	1	0	0.0
65 to 69 years	1	0	0.0	1	0	0.0	1	0	0.0
70 to 74 years	1	0	0.0	1	0	0.0	1	0	0.0
75 to 79 years	1	0	0.0	1	0	0.0	1	0	0.0
80 to 84 years	1	0	0.0	1	0	0.0	1	0	0.0
85 to 89 years	1	0	0.0	1	0	0.0	1	0	0.0
90 to 94 years	1	0	0.0	1	0	0.0	1	0	0.0
95 to 99 years	1	0	0.0	1	0	0.0	1	0	0.0
Total	12	0	0.0	12	0	0.0	12	0	0.0

TABLE 27.—*Typhoid fever—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1928, inclusive*

	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	99	64	163	45.0	68.0	52.0	660	237	897	274.3	244.9	265.9	11.0	13.6	13.0
1906-1910 <sup>1</sup> .....	73	46	119	30.0	48.0	35.0	343	137	480	134.4	139.4	135.0	9.6	19.0	12.3
1911-1915 <sup>1</sup> .....	33	26	59	12.9	26.4	16.7	161	73	234	52.4	68.7	56.6	11.2	27.4	16.2
1916-1920 <sup>1</sup> .....	18	20	38	5.9	18.8	9.2	125	26	151	35.5	22.6	32.4	14.2	27.8	17.0
1921-1925 <sup>1</sup> .....	10	3	13	2.3	2.2	2.3	68	21	89	17.3	15.7	16.8	14.7	14.3	14.6
1926.....	6	4	10	1.5	2.9	1.9	55	23	78	13.6	16.9	14.4	10.9	17.4	12.8
1927.....	6	4	10	1.4	7.8	2.7	23	23	46	5.4	18.0	8.3	26.1	39.1	32.6
1928.....															

<sup>1</sup> Annual average for 5-year period.TABLE 27A.—*Typhoid fever—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	0	1	2	1	2	2	August.....	4	1	3	1	7	2
February.....	0	0	1	0	1	0	September.....	5	1	3	2	8	3
March.....	0	0	2	0	2	0	October.....	5	3	6	0	11	3
April.....	1	0	0	1	1	1	November.....	1	0	4	2	5	2
May.....	2	0	1	1	3	1	December.....	2	0	1	1	3	1
June.....	1	0	0	0	1	0	Total.....	23	6	23	9	46	15
July.....	2	0	0	0	2	0							

TABLE 27B.—*Typhoid fever—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	0	0	0	0	0	0	0	0	0
1 to 4 years.....	0	0	0	1	0	0	1	0	0
5 to 9 years.....	2	0	0	3	0	0	5	0	0
10 to 19 years.....	6	1	16.6	8	3	37.5	15	4	26.6
20 to 29 years.....	7	3	42.8	7	3	42.8	14	6	42.8
30 to 39 years.....	2	0	0	1	0	0	3	0	0
40 to 49 years.....	3	2	66.6	1	1	100.0	4	3	75.0
50 to 59 years.....	3	0	0	1	1	100.0	3	1	33.3
60 to 69 years.....	0	0	0	1	1	100.0	1	1	100.0
70 years and over.....	0	0	0	0	0	0	0	0	0
Total.....	23	6	26.1	23	9	39.1	46	15	32.6

TABLE 28.—*Whooping cough—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1928, inclusive*

Year	Deaths			Death rates per 100,000 population			Cases			Case rates per 100,000 population			Percentage of deaths to cases		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1901-1905 <sup>1</sup> .....	27	50	77	12.0	53.0	25.0	-----	-----	-----	-----	-----	-----	-----	-----	-----
1906-1910 <sup>1</sup> .....	15	23	38	6.0	24.0	11.0	-----	-----	-----	-----	-----	-----	-----	-----	-----
1911-1915 <sup>1</sup> .....	10	19	29	3.9	19.3	8.2	525	197	722	205.8	200.4	204.3	1.9	9.6	4.0
1916-1920 <sup>1</sup> .....	11	16	27	3.6	15.0	6.5	1,149	270	1,419	374.2	254.3	343.4	.9	5.9	1.9
1921-1925 <sup>1</sup> .....	6	10	16	1.8	8.7	3.5	716	136	852	204.5	118.8	183.3	.8	7.7	2.0
1926.....	24	15	39	6.1	11.2	7.4	923	97	1,020	234.1	72.6	193.2	2.6	15.5	3.8
1927.....	10	7	17	2.5	5.0	3.5	394	82	476	97.6	60.2	88.1	2.5	8.5	3.6
1928.....	7	15	22	1.6	11.7	4.0	430	119	549	101.3	93.3	99.5	1.6	12.6	4.0

<sup>1</sup> Annual average for 5-year period.TABLE 28A.—*Whooping cough—Reported cases and deaths, by race and by months, during the calendar year 1928*

Month	White		Colored		Total		Month	White		Colored		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths		Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	31	1	12	1	43	2	August.....	38	1	3	1	41	2
February.....	21	0	13	1	34	1	September.....	31	1	13	2	44	3
March.....	36	0	7	1	43	1	October.....	25	0	7	1	32	1
April.....	27	0	5	1	32	1	November.....	92	1	18	3	110	4
May.....	22	1	7	1	29	2	December.....	42	2	12	2	54	4
June.....	36	0	10	1	46	1	Total.....	430	7	119	15	549	22
July.....	29	0	12	0	41	0							

TABLE 28B.—*Whooping cough—Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1928*

Age	White			Colored			Total		
	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases	Cases	Deaths	Percent- age of deaths to cases
Under 1 year.....	39	3	7.7	23	7	30.4	62	10	16.1
1 to 4 years.....	148	4	2.7	47	8	17.2	195	12	6.1
5 to 9 years.....	218	0	0	39	0	0	257	0	0
10 to 19 years.....	18	0	0	7	0	0	25	0	0
20 to 29 years.....	4	0	0	1	0	0	5	0	0
30 to 39 years.....	0	0	0	2	0	0	2	0	0
40 to 49 years.....	1	0	0	0	0	0	1	0	0
50 to 59 years.....	1	0	0	0	0	0	1	0	0
60 to 69 years.....	1	0	0	0	0	0	1	0	0
70 years and over.....	0	0	0	0	0	0	0	0	0
Total.....	430	7	1.6	119	15	12.6	549	22	4.0

TABLE 29.—*Population and deaths, by race, in the District of Columbia, from pneumonia, bronchitis and congestion of the lungs, and from said diseases taken together, and showing the death rate per 100,000 of each of such classes of deaths*

Calendar year	Population		Pneumonia				Bronchitis			
	White	Colored	White		Colored		White		Colored	
			Deaths	Death rate per 100,000	Deaths	Death rate per 100,000	Deaths	Death rate per 100,000	Deaths	Death rate per 100,000
1901-1905 <sup>1</sup> .....	217,606	93,719	219	101	288	307	55	25	80	85
1906-1910 <sup>1</sup> .....	240,244	96,696	246	102	304	314	61	25	67	69
1911-1915 <sup>1</sup> .....	255,360	98,453	262	103	285	289	51	20	42	43
1916-1920 <sup>1</sup> .....	307,076	106,194	427	139	382	360	43	14	31	29
1921-1925 <sup>1</sup> .....	358,013	115,758	371	104	346	278	33	9	28	25
1926.....	394,300	133,700	459	116	348	260	37	9	24	18
1927.....	403,800	136,200	294	73	283	202	14	3	17	12
1928.....	424,400	127,600	335	79	303	237	19	4	16	12

Calendar year	Population		Congestion of lungs				Pneumonia, bronchitis, and congestion of lungs			
	White	Colored	White		Colored		White		Colored	
			Deaths	Death rate per 100,000	Deaths	Death rate per 100,000	Deaths	Death rate per 100,000	Deaths	Death rate per 100,000
1901-1905 <sup>1</sup> .....	217,606	93,719	33	15	25	27	307	141	393	419
1906-1910 <sup>1</sup> .....	240,244	96,696	27	11	13	13	334	139	384	397
1911-1915 <sup>1</sup> .....	255,360	98,453	13	5	7	7	326	128	334	339
1916-1920 <sup>1</sup> .....	307,076	106,194	7	2	2	2	476	155	415	391
1921-1925 <sup>1</sup> .....	358,013	115,758	8	2	4	3	413	115	378	326
1926.....	394,300	133,700	15	4	5	4	511	130	377	282
1927.....	403,800	136,200	10	3	3	2	318	79	303	222
1928.....	424,400	127,600	9	2	3	2	363	85	322	252

<sup>1</sup> Annual average for 5-year period.TABLE 32.—*Births (stillbirths excluded) reported in the District of Columbia, arranged by race and by legitimacy and illegitimacy, and number of multiple births for the years mentioned*

Calendar years	Legitimate			Illegitimate			Total			Twins			Triplets		
	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total	White	Colored	Total
1896-1900 <sup>1</sup> .....	2,712	1,380	4,092	86	491	577	2,798	1,871	4,669	71	42	113	1	0	1
1901-1905 <sup>1</sup> .....	3,335	1,499	4,834	95	481	576	3,430	1,980	5,409	72	52	124	1	0	1
1906-1910 <sup>1</sup> .....	4,533	1,786	6,319	99	482	581	4,632	2,268	6,900	84	46	130	1	1	2
1911-1915 <sup>1</sup> .....	4,690	1,769	6,459	104	464	568	4,794	2,234	7,028	78	52	130	1	1	2
1916-1920 <sup>1</sup> .....	5,641	1,889	7,530	105	391	496	5,746	2,279	8,025	105	50	155	0	0	0
1921-1925 <sup>1</sup> .....	6,321	2,264	8,585	119	437	586	6,440	2,701	9,141	115	55	170	2	1	3
1926.....	6,033	2,405	8,438	126	440	566	6,159	2,845	9,004	116	52	168	0	0	0
1927.....	6,212	2,378	8,590	121	464	585	6,333	2,842	9,175	88	58	146	0	0	0
1928.....	6,066	2,332	8,398	135	461	596	6,201	2,793	8,994	152	52	204	0	0	0

<sup>1</sup> Annual average for 5-year period.



TABLE 33.—Stillbirths reported in the District of Columbia during the calendar year 1928, by race and sex, and certain data relative thereto

Legitimacy	White			Colored			Unknown race			Total
	Male	Female	Sex unknown	Male	Female	Sex unknown	Male	Female	Sex unknown	
Legitimate.....	111	84	-----	115	69	8	-----	-----	-----	387
Illegitimate.....	3	3	-----	25	19	-----	-----	-----	-----	50
Unknown.....	4	2	2	15	19	-----	1	0	4	47
	118	89	2	155	107	8	1	0	4	484
Period uterogestation:										
4 months and under.....	-----	-----	-----	6	2	2	1	-----	3	14
5 months.....	10	5	1	14	16	2	-----	-----	-----	48
6 months.....	18	10	-----	24	9	1	-----	-----	-----	62
7 months.....	6	9	1	18	18	-----	-----	-----	-----	52
8 months.....	15	11	-----	27	21	-----	-----	-----	1	75
9 months.....	69	52	-----	65	41	2	-----	-----	-----	229
10 months.....	-----	2	-----	1	-----	1	-----	-----	-----	4
	118	89	2	155	107	8	1	-----	4	484
Cause unknown.....	57	51	2	111	83	7	1	-----	4	316
Prematurity.....	5	3	-----	3	2	-----	-----	-----	-----	13
Hour glass contracted.....	1	-----	-----	-----	-----	-----	-----	-----	-----	1
Automobile trip.....	1	-----	-----	-----	-----	-----	-----	-----	-----	1
Injury to mother.....	1	2	-----	6	1	-----	-----	-----	-----	10
Monstrosity.....	1	-----	-----	-----	-----	-----	-----	-----	-----	1
Disproportion in size.....	1	1	-----	-----	-----	-----	-----	-----	-----	2
Malformation.....	1	-----	-----	-----	-----	-----	-----	-----	-----	1
Hydrocephalus.....	1	-----	-----	1	1	-----	-----	-----	-----	3
Asphyxia.....	6	-----	-----	3	-----	-----	-----	-----	-----	9
Intrauterine.....	3	2	-----	3	1	1	-----	-----	-----	10
Neonatorum.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
Prolapsed cord.....	6	6	-----	4	1	-----	-----	-----	-----	17
Difficult labor.....	4	2	-----	1	-----	-----	-----	-----	-----	7
Placenta previa.....	12	5	-----	1	11	-----	-----	-----	-----	29
Intracranial hemorrhage.....	2	2	-----	3	1	-----	-----	-----	-----	8
Mal presentations.....	2	2	-----	2	-----	-----	-----	-----	-----	6
Eclampsia.....	2	2	-----	1	1	-----	-----	-----	-----	6
Diabetes.....	1	-----	-----	-----	-----	-----	-----	-----	-----	1
Nephritis.....	2	2	-----	1	1	-----	-----	-----	-----	6
Toxemia.....	4	3	-----	1	-----	-----	-----	-----	-----	8
Hydromnios.....	4	-----	-----	-----	-----	-----	-----	-----	-----	4
Spontaneous miscarriage.....	1	-----	-----	-----	-----	-----	-----	-----	-----	1
Shock, following dog bite.....	-----	1	-----	-----	-----	-----	-----	-----	-----	1
Ruptured uterus.....	-----	1	-----	-----	-----	-----	-----	-----	-----	1
Deformity.....	-----	1	-----	-----	-----	-----	-----	-----	-----	1
Intracranial pressure.....	-----	1	-----	-----	-----	-----	-----	-----	-----	1
Spina bifida.....	-----	2	-----	-----	-----	-----	-----	-----	-----	2
Syphilis.....	-----	-----	-----	9	1	-----	-----	-----	-----	10
Macerated fetus.....	-----	-----	-----	1	-----	-----	-----	-----	-----	1
Impacted twins.....	-----	-----	-----	1	-----	-----	-----	-----	-----	1
Died in uterus.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
Respiratory failure.....	-----	-----	-----	1	-----	-----	-----	-----	-----	1
Dystocia.....	-----	-----	-----	1	1	-----	-----	-----	-----	2
Toxic thyroidism.....	-----	-----	-----	-----	1	-----	-----	-----	-----	1
	118	89	2	155	107	8	1	-----	4	484
Physicians.....	111	87	1	133	86	5	-----	-----	-----	423
Coroner.....	7	2	1	22	21	3	1	-----	4	61
	118	89	2	155	107	8	1	-----	4	484
Institutions.....	166			110			5			276
Homes.....	43			160			-----			208
	209			270			5			484

